LEGIBILITY NOTICE

A major purpose of the Technical Information Center is to provide the broadest dissemination possible of information contained in DOE's Research and Development Reports to business, industry, the academic community, and federal, state and local governments.

Although a small portion of this report is not reproducible, it is being made available to expedite the availability of information on the research discussed herein.

EPA--560/5-84-004-Vol.4-Pt.1

DE86 004685

EPA-560/5-84-004(Vol.4-Pt.1)
(DE86004685)
Distribution Category UC-11

NATIONAL BODY-BURDEN DATABASE

CHEMICALS IDENTIFIED IN FERAL AND FOOD ANIMALS

1984

VOLUME IV, Part 1

Prepared by

M. Virginia Cone, Marialice Ferguson,
C. Donald Powers, and Anna S. Hammons

Health and Environmental Information Section
Public Information and Presentations
300 S. Tulane Avenue
Oak Ridge, Tennessee 37830
operated by
Science Applications International Corporation
for the
Department of Energy
under Contract No. DE-AC05-81OR20837

This effort was accomplished under the aegis of the
Interagency Collaborative Group on Environmental Carcinogenesis,
National Cancer Institute, National Institutes of Health,
Dr. Thomas P. Cameron, Chairperson

Published January 1986

Philip E. Robinson, Project Officer
Design and Development Branch
Exposure Evaluation Division
Office of Toxic Substances
U.S. Environmental Protection Agency
Washington, DC 20460

CONTENTS

PART 1

ACKNOWLEDGMENTS v
INTRODUCTION 1
USER'S GUIDE 3
JOURNALS SEARCHED MANUALLY 7
CHEMICAL LISTS
- CAS Registry Numbers-Preferred Names 9
- Common Names-CAS Preferred Names 23

INDICES
- Author 149
- Animal-Tissue 173
- Tissue 193
- Keyword 199
- Geography 231
- Chemicals (1979-1984) 241

DATABASE RECORDS 255

PART 2

DATABASE RECORDS 553

ACKNOWLEDGMENTS

We are especially indebted to Philip E. Robinson (Project Officer) and Cindy Stroup, U.S. Environmental Protection Agency, and Thomas P. Cameron (Co-project Officer and the Chairperson of the Interagency Collaborative Group on Environmental Carcinogenesis), National Cancer Institute (NCI) for their valuable advice and continued support.

We would also like to acknowledge the assistance of Ingeborg C. Blackwood, NCI, and the computer programming assistance of Sandra B. Harris, Mark R. Jenkins, and Deborah A. Holder, Science Applications International Corporation (SAIC).

For their technical assistance in preparing records for the database, David M. Stair (SAIC), Marion E. Roesel, Kathryn J. Davis, Ernestine J. Friedman, Marsha W. Sega, and Gerald E. Spady are also gratefully acknowledged.

INTRODUCTION

This database was established in 1981 under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI). The work is performed by the Health and Environmental Information Section, Public Information and Presentations, Science Applications International Corporation (SAIC), Oak Ridge, Tennessee, under the direction of the Exposure Evaluation Division, Office of Toxic Substances, U.S. Environmental Protection Agency (EPA). Funds are provided through interagency agreements involving NCI, EPA, and the U.S. Department of Energy (DOE), and a contract between DOE and SAIC. The database provides a central source of systematically collected and organised body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure.

Data are obtained primarily through routine, manual searches of selected, scientific journals. These searches are augmented by searches of computerised databases. Because the database is not intended to obviate the need for the user to refer ultimately to the original sources, no attempt is made to evaluate the quality of the data. Information on chemical nomenclature and properties is from online sources and standard handbooks.

The database is used in exposure, hasard, and risk assessment; in identifying potential human and environmental health problems, including sources of exposure to toxic substances; in planning research and comparing results; and in teaching in public health and medical schools.

The database is available online through Lockheed's DIALOG Information Services, Inc. (File 138). Hard copies are printed and distributed annually, primarily to interested government agency administrators and scientists, selected government agency libraries, and medical and public health school libraries. A companion report, Chemicals Identified in Human Biological Media is also available. Individuals not having access to library copies or needing personal copies, may obtain them from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. A limited number of copies is available on request to M. Virginia Cone, Science Applications International Corporation, 300 S. Tulane Avenue, Oak Ridge, TN 37830.

Comments by users of the database are invited. Correspondence should be directed to:

Philip E. Robinson, Project Officer
Design and Development Branch
Exposure Evaluation Division (TS-798)
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Telephone (202)382-3910

USER'S GUIDE

In this 1984 annual publication, Part 1 contains introductory materials, chemical and journal lists, and indices. Part 2 contains, in tabular form, the records added since the last publication.

Appropriate data are extracted from journal articles and entered in the database by chemical, animal and tissue/body fluid. Each such data entry is a single record and is given a record number. Record numbers are assigned consecutively throughout the entire database. If a particular document contains information on more than one animal, chemical or tissue, there will be multiple records. For example, a study of 5 chemicals in each of 3 tissues in 2 animal species has 30 different records in the database and 30 record numbers. Chemicals in Part 2 are arranged alphabetically by Chemical Abstracts Service (CAS) preferred name.

Portions of two records are used to illustrate the format of the table. The chemical, in this case, bensene, hexachloro-, is listed first followed by its CAS Registry number, symbol or formula, chemical properties, and common and scientific names. These data are repeated at the top of each new page containing continued data on the same chemicals. If records on the same chemical in different animals are on the same page, only the animal and species names are repeated. Keywords and references for each record appear across the columns at the bottom of each record. If there are multiple records from the same source, keywords/references appear with the last record in each set. The tissue and the record number are given in the first column, and cases and exposure route, ranges and means of concentrations found in the tissue are reported in the next three columns.

Bensene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean
2761 Adipose	a) 135 b) 16 c) 39 Ingestion	a) 0.009-0.075 mg/kg b) Not detected-0.029 mg/kg c) 0.003-0.023 mg/g Wet wt	a) 0.038 mg/kg b) 0.013 mg/kg c) 0.009 mg/kg Wet wt

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLY
TRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED
CLOHEXANE
Chevalon, A.; George, L.; Gulayets, C.; Heyane, Y.; McGuinness, B.; Moore, J.; Ramamoorti
13(1)19-33

Grunt
PARAPRISTIPOMA TRILINEATUM

Tissue	Cases Exposure Route	Range	Mean

The last column in these records contains the general information needed to understand the ranges and means reported, for example, group distinctions, demography, geography, health effects, pathology, morphology, toxicity, and analytical methods used (see page 5 for key to abbreviations).

Mean	General Information
mg/kg mg/kg mg/kg	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. Canada, Alberta GC-EC

; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENNATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCY-

amoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere

Mean	General Information

Exponents are written as in the following example: 5×10^{-15} is 5 x 10(E-15). All means are arithmetic unless designated geometric. When included, standard error is indicated by S.E. However, standard deviations, when given, have no such designations. When source documents display data graphically, values are estimated by the data extractors and so indicated under general information.

Keywords provide additional information about the study reported and the contents of the source document. For example, another tissue occurring as a keyword indicates that the document also contains information on that tissue.

Secondary sources such as review articles are included; however, specific data (range, mean, etc.) are not recorded. Reviews are designated in the general information column.

CAS preferred names are from the Ninth Collective Index, and, when different, names from both eighth and ninth indices (8 CI, 9CI) are given. An alphabetical list of synonyms paired with CAS preferred names is found in the Chemical Lists section of Part 1.

For accessing information in the database when only the CAS Registry number is known, the user should refer to the list (also in Part 1) of CAS Registry numbers coupled with preferred names.

Author, animal/tissue, tissue or body fluid, keywords, and geography indices in Part 1 refer the user to the appropriate record number(s) in Parts 1 and 2. A cumulative chemical index for the entire database (1981-1984) is also included.

ABBREVIATIONS USED FOR ANALYTICAL METHODS

AAS	Atomic absorption spectrometry
APDC	Ammonium pyrrolidine diethiocarbamate-methylisobutyl ketone extraction
ASV	Anodic stripping voltammetry
CC	Column chromatography
Chem	Chemical method
CI	Chemical ionisation
Chemilumines	Chemiluminescence
DPASV	Differential pulse anodic stripping voltammetry
EC	Electron capture
Electrochem	Electrochemical method
ELISA	Enzyme-linked immunosorbent assay
EM	Electron microscopy
EMIT	Enzyme multiplied radioimmunoassay
ES	Emission spectrometry
GC	Gas chromatography
GC-EC	Gas chromatography, electron capture detection
GC/MS	Gas chromatography with mass spectrometry
GC/CI	Gas chromatography with chemical ionisation
GC/MF	Gas chromatography with mass fragmentography
GLC	Gas-liquid chromatography
Histochem	Histochemistry
HPLC	High-pressure liquid chromatography
HPLC-ED	High-pressure liquid chromatography, electrochemical detection
HPLC/RIA	High-pressure liquid chromatography with radioimmunoassay
HPLC/TLC	High-pressure liquid chromatography with thin-layer chromatography
HPLC/FD	High-pressure liquid chromatography with fluorometric determination
ICP-AES	Inductively coupled plasma-atomic emission spectroscopy
IR	Infrared analysis
ISE	Ion-specific electrode
LC	Liquid chromatography
LSV	Linear sweep voltammetry

MAS	Molecular absorption spectrophotometry
MS	Mass spectrometry
MED	Microwave emission detector (ion)
NA	Neutron activation
NMR	Nuclear magnetic resonance
PIXE	Proton-induced X-ray emission
RIA	Radioimmunoanalysis
SPF	Spectrophotofluorometry
TLC	Thin-layer chromatography
TLC/GC	Thin-layer chromatography with gas chromatography
TPGLC	Temperature-programmed gas-liquid chromatography
UV	Ultraviolet analysis
X-ray fluores	X-ray fluorescence
X-ray spectrom	X-ray spectrometry

JOURNALS SEARCHED MANUALLY

Acta Pharmacologica et Toxicologica
Agri-Practice (Formerly Bovine Practice)
Ambio
American Journal of Veterinary Research
Archives of Environmental Contamination and Toxicology
Archives of Environmental Health
Archives of Toxicology
Australian Veterinary Journal
Avian Diseases
British Veterinary Journal
Bulletin of Environmental Contamination and Toxicology
Canadian Journal of Animal Science
Canadian Veterinary Journal
Chemosphere
Current Contents
Ecotoxicology and Environmental Safety
Environmental Health Perspectives
Environmental Pollution, Series A (Ecological & Biological)
Environmental Research
Environmental Toxicology and Chemistry
International Journal of Environmental Studies
Journal of Agricultural and Food Chemistry
Journal of Animal Science
Journal of Environmental Science and Health (Parts A and B)
Journal of the American Veterinary Medical Association
Journal of Toxicology and Environmental Health
Journal of Wildlife Diseases
Nature
Science
Science of the Total Environment
Toxicology
Toxicology and Applied Pharmacology
Veterinary and Human Toxicology
Xenobiotica

CHEMICAL LISTS

CAS Registry Numbers-Preferred Names, page 9
Common Names-CAS Preferred Names, page 23

50-24-8
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17, 21-trihydroxy-, (11beta)- (9 CI)

50-28-2
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

50-29-3
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene) bis(4-chloro- (9 CI)

50-32-8
Benzo(a)pyrene

54-31-9
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

56-35-9
Distannoxane, hexabutyl-

56-75-7
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-, (R-(R*,R*))- (9 CI)

57-27-2
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

57-83-0
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

57-88-5
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

58-08-2
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

58-89-9
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

60-57-1
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo,exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7, 7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

63-68-3
Methionine, L- (8 CI); L-Methionine (9 CI)

67-45-8
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

67-72-1
Ethane, hexachloro-

67-97-0
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

72-20-8
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo,endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a, 7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

72-43-5
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

72-54-8
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

72-55-9
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis (4-chloro- (9 CI)

76-03-9
Acetic acid, trichloro-

76-44-8
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

79-06-1
2-Propenamide

79-09-4
Propionic acid (8 CI); Propanoic acid (9 CI)

79-57-2
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

84-65-1
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

84-74-2
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

85-01-8
Phenanthrene

87-61-6
Benzene, 1,2,3-trichloro-

87-68-3
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

87-86-5
Phenol, pentachloro-

88-06-2
Phenol, 2,4,6-trichloro-

88-89-1
Picric acid (8 Cl); Phenol, 2,4,6-trinitro

90-98-2
Benzophenone, 4,4'-dichloro- (8 Cl); Methanone, bis(4-chlorophenyl)- (9 Cl)

91-20-3
Naphthalene

94-75-7
Acetic acid, (2,4-dichlorophenoxy)-

95-50-1
Benzene, o-dichloro- (8 Cl); Benzene, 1,2-dichloro- (9 Cl)

95-94-3
Benzene, 1,2,4,5-tetrachloro-

96-91-3
Phenol, 2-amino-4,6-dinitro-

98-57-7
Sulfone, p-chlorophenyl methyl (8 Cl); Benzene, 1-chloro-4-(methylsulfonyl)- (9 Cl)

106-46-7
Benzene, p-dichloro- (8 Cl); Benzene, 1,4-dichloro- (9 Cl)

106-36-1
Benzene, m-dibromo- (8 Cl); Benzene, 1,3-dibromo- (9 Cl)

108-70-3
Benzene, 1,3,5-trichloro-

108-90-7
Benzene, chloro-

108-95-2
Phenol

112-40-3
Dodecane

112-95-8
Eicosane

113-98-4
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

114-07-9
Erythromycin

115-29-7
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

117-81-7
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

118-74-1
Benzene, hexachloro-

120-12-7
Anthracene

120-82-1
Benzene, 1,2,4-trichloro-

121-25-5
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

122-14-5
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O, O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

125-28-0
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

127-27-5
Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-t rimethyl-, (1R-(1alpha,4abeta, 4balpha,7beta,10aalpha))- (9 CI)

127-47-9
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

128-46-1
Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1,2)-O-5-d eoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bis (aminoiminomethyl)- (9 CI)

139-91-3
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitro-2-furanyl)methylene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

141-66-2
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

143-50-0
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

298-00-0
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O, O-dimethyl O-(4-nitrophenyl) ester (9 CI)

309-00-2
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

319-84-6
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

319-85-7
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2beta,3alpha,4beta,5alpha,6beta)- (9 CI)

328-84-7
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

333-41-5
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

471-74-9
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta, 4balpha,7alpha,10aalpha))- (9 CI)

504-24-5
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

504-88-1
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

514-10-3
Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3, 4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl ethyl-)-, (1R-(1alpha,4abeta,4balpha, 10aalpha))- (9 CI)

541-73-1
Benzene, 1,3-dichloro-

544-76-3
Hexadecane

551-11-1
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

590-46-5
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

593-45-3
Octadecane

607-99-8
Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)

608-93-5
Benzene, pentachloro-

615-54-3
Benzene, 1,2,4-tribromo-

629-50-5
Tridecane

629-59-4
Tetradecane

629-62-9
Pentadecane

629-78-7
Heptadecane

629-92-5
Nonadecane

634-66-2
Benzene, 1,2,3,4-tetrachloro-

634-90-2
Benzene, 1,2,3,5-tetrachloro-

638-36-8
Hexadecane, 2,6,10,14-tetramethyl-

709-98-8
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

732-11-6
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (9 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

789-03-6
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

1022-22-6
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

1024-57-3
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI)

1162-65-8
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,9aalpha-tetrahydro-4-methoxy- (8 CI) Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,9a-tetrahydro-4-methoxy-, (6aR-cis)- (9 CI)

1321-67-1
Naphthol (8 CI); Naphthalenol (9 CI)

1327-53-3
Arsenic oxide [As2O3]

1332-21-4
Asbestos

1336-36-3
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

1403-66-3
Gentamicin

1740-19-8
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI)

1746-01-6
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

1825-21-4
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

1912-24-9
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

1921-70-6
Pentadecane, 2,6,10,14-tetramethyl-

2050-68-2
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

2051-62-9
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

2385-85-5
1,3,4-Methano-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

5103-71-9
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aalpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha, 2alpha,3aalpha,4beta,7beta,7aalpha)- (9 CI)

5103-73-1
4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha, 4,7,7-aalpha-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha ,2alpha,3alpha,3aalpha,4beta,7aalpha- (9 CI)

5700-49-2
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

5835-26-7
Podocarp-7-en-15-oic acid, 13beta-methyl-13-vinyl-, (-)- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta, 4balpha,7alpha,10aalpha))- (9 CI)

6130-64-9
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido) -, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

6673-35-4
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

6795-22-9
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,9a-tetrahydro-9a-hydroxy-4-methoxy-, (6aR-cis)-

6885-57-0
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy-

7220-81-7
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

7429-90-5
Aluminum

7439-89-6
Iron

7439-91-0
Lanthanum

7439-92-1
Lead

7439-93-2
Lithium

7439-95-4
Magnesium

7439-96-5
Manganese

7439-97-6
Mercury

7439-98-7
Molybdenum

7440-02-0
Nickel

7440-07-5
Plutonium

7440-09-7
Potassium

7440-17-7
Rubidium

7440-19-9
Samarium

7440-20-2
Scandium

7440-22-4
Silver

7440-23-5
Sodium

7440-24-6
Strontium

7440-29-1
Thorium

7440-31-5
Tin

7440-36-0
Antimony

7440-38-2
Arsenic

7440-39-3
Barium

7440-43-9
Cadmium

7440-45-1
Cerium

7440-46-2
Cesium

7440-47-3
Chromium

7440-48-4
Cobalt

7440-50-8
Copper

7440-61-1
Uranium

7440-62-2
Vanadium

7440-66-6
Zinc

7440-70-2
Calcium

7487-94-7
Mercury chloride

7553-56-2
Iodine

7664-41-7
Ammonia

7723-14-0
Phosphorus

7726-95-6
Bromine

7727-37-9
Nitrogen

7782-49-2
Selenium

8001-35-2
Toxaphene

8001-50-1
Strobane

8056-08-4
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

9002-69-1
Relaxin

9002-72-6
Somatotropin

10043-66-0
Iodine, isotope of mass 131

10045-97-3
Cesium, isotope of mass 137

10098-97-2
Strontium, isotope of mass 90

10161-33-8
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta) - (9 CI)

10198-40-0
Cobalt, isotope of mass 60

10265-92-6
Phosphoramidothioic acid, O,S-dimethyl ester

10453-86-8
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl) -3-furanyl)methyl ester (9 CI)

11096-82-5
Arochlor 1260

11097-69-1
Arochlor 1254

11103-57-4
Vitamin A

12674-11-2
Arochlor 1016

12789-03-6
Chlordane

13071-79-9
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-(((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

13981-52-7
Polonium, isotope of mass 210

14158-31-7
Iodine, isotope of mass 125

14255-04-0
Lead, isotope of mass 210

14265-71-5
Selenium, isotope of mass 75

14596-10-2
Americium, isotope of mass 241

14596-37-3
Phosphorus, isotope of mass 32

14681-59-5
Iron, isotope of mass 55

14762-75-5
Carbon, isotope of mass 14

14769-73-4
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

14797-65-0
Nitrite

15046-84-1
Iodine, isotope of mass 129

15117-48-3
Plutonium, isotope of mass 239

16984-48-8
Fluoride

17341-25-2
Sodium, ion (Na(1+))

19356-17-3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3, 25-diol, (3beta,5Z,7E)- (9 CI)

21702-84-1
Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)

22967-92-6
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

25182-84-7
1-Propanol, 3-nitro-

26880-48-8
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

30560-19-1
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

30774-95-9
Phenanthrenol

31671-77-9
Anthracenecarboxaldehyde

35065-27-1
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

35367-38-5
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

35693-99-3
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

39765-80-5
4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta, 3alpha,3aalpha,4beta,7beta,7aalpha)-

41464-40-8
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

43210-67-9
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

51207-31-9
Dibenzofuran, 2,3,7,8-tetrachloro-

51481-10-8
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

51630-58-1
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

52645-53-1
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

53469-21-9
Arochlor 1242 (No postings in CHEMLINE).

55069-01-7
Eulan WA New

56073-10-0
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl) -4-hydroxy-

59080-40-9
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-

60846-21-1
5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 3-((acetyloxy)methyl)-7-(((2-amino-4-thiazolyl)(methoxyimino)acetyl)amino)-8-oxo-, (6R-trans)-

61788-33-8
Terphenyl, chlorinated

67733-52-2
1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptabromo-

70124-77-5
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

(-)-Cholesterol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

(-)-Dihydrocodeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

(-)-Morphine
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

(-)-Tetramisole
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

(2,4-Dichlorophenoxy)acetic acid
Acetic acid, (2,4-dichlorophenoxy)-

(3R-(3R*,4S*,5S*,6R*,7R*,9R*,11R*,12R*,13S*,14R*))-4-((2,6-Dideoxy-3-C-methyl-3-O-methyl-alpha-L-rib
Erythromycin

(5-Benzyl-3-furyl) methyl-2,2-dimethyl-3-(2-methylpropenyl)-cyclopropanecarboxy late
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

(5-Benzyl-3-furyl)methyl chrysanthemate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

(O,O-Dimethyl-phthalimidiomethyl-dithiophosphate)
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

009
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

1 Basudin
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

1,1,1,2,2,2-Hexachloroethane
Ethane, hexachloro-

1,1,1-Trichloro-2,2-bis(4,4'-dichlorodiphenyl)ethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

1,1,2,3,4,4-Hexachloro-1,3-butadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

1,1-Bis(4-chlorophenyl)-2,2-dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

1,1-Bis(p-chlorophenyl)-2,2-dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

1,1-Bis(p-chlorophenyl)2-chloroethylene
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

1,1-Dichloro-2,2-di(p-chlorophenyl)ethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

1,2,3,4,5-pentachlorobenzene
Benzene, pentachloro-

1,2,3,4-tetrachlorobenzene
Benzene, 1,2,3,4-tetrachloro-

1,2,3,5-Tetrachlorobenzene
Benzene, 1,2,3,5-tetrachloro-

1,2,3-Trichlorobenzene
Benzene, 1,2,3-trichloro-

1,2,4,5,6,7,8,8-Octachloro-4,7-methano-3a,4,7,7a-tetra hydroindane
Chlordane

1,2,4,5-Tetrachlorobenzene
Benzene, 1,2,4,5-tetrachloro-

1,2,4-Tribromobenzene
Benzene, 1,2,4-tribromo-

1,2,4-Trichlorobensol
Benzene, 1,2,4-trichloro-

1,2,6-Trichlorobenzene
Benzene, 1,2,3-trichloro-

1,2-Benzenedicarboxylic acid, bis(ethylhexyl)ester
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

1,2-Dehydrohydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1,2-Dichloro-4-(trifluoromethyl)benzene
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

1,2-Dichlorobenzene
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

1,3,4-Metheno-1H-cyclobuta(cd)pentalene, dodecachlorooctahydro-
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

1,3,5-Trichlorobenzene
Benzene, 1,3,5-trichloro-

1,3,5-Trinitrophenol
Picric acid (8 CI); Phenol, 2,4,6-trinitro

1,3,7-Trimethyl-2,6-dioxopurine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

1,3,7-Trimethylxanthine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-, dimer
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

1,3-Dibromobenzene
Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)

1,3-Dichlorobenzene
Benzene, 1,3 dichloro-

1,4,5,6,7,8,8-Heptachloro-2,3-epoxy-2,3,3a,4,7,7a-hexa hydro-4,7-methanoindene
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI)

1,4-Dichlorobenzene
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

1,4-pregnadiene-3,20-dione
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1-(4-Acetamidophenoxy-3-isopropylamino-2-propanol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

1-Amino-2-hydroxy-3,5-dinitrobenzene
Phenol, 2-amino-4,6-dinitro-

1-Chloro-2,2-bis(p-chlorophenyl)ethylene
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

1-Chloro-3-ethylamino-5-isopropylamino-s-triazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

1-Dehydrohydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

l-Tetramisole
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

11beta,17alpha-21-trihydroxy-4-pregnene-3,20-dione
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

11beta-Hydroxycortisone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

17-Hydroxycorticosterone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1721 Gold
Copper

17alpha-Hydroxycorticosterone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

17beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

17beta-Hydroxy-19-norandrosta-4,9,11-trien-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

17beta-Hydroxyestra-4,9,11-trien-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

17beta-Oestradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

19-Norandrosta-4,9,11-trien-17beta-ol-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

2,2',3,4,4',5,5'-Heptabromobiphenyl
1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptabromo-

2,2',4',5-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

2,2',4,4',5,5'-Hexabromobiphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-

2,2',4,4',5,5'-Hexachloro-1,1'-biphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

2,2',4,4',5,5'-Hexachlorobiphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

2,2',4,5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

2,2',5,5'-TCB
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

2,2',5,5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

2,2-Bis(4-chlorophenyl)-1,1-dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

2,2-Bis(4-chlorophenyl)-1,1-dichloroethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

2,2-Bis(p-chlorophenyl)-1,1,1-trichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

2,2-Bis(p-methoxyphenyl)-1,1,1-trichloroethane 2,2-di-p-anisyl-1,1,1-trichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

2,3,4,5,6-Pentachloroanisole
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

2,3,6,7-Tetrachlorodibenzo-p-dioxin
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

2,3,7,8-TCDD
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

2,3,7,8-Tetrachlorodibenzo-(b,e)(1,4)dioxan
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

2,3,7,8-Tetrachlorodibenzofuran
Dibenzofuran, 2,3,7,8-tetrachloro-

2,4'-DDT
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

2,4,2',5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

2,4,5,2',4',5'-Hexachlorobiphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

2,4,6,2',4'-Pentachlorobiphenyl
2,4,6,2',4'-Pentachlorobiphenyl (No postings in CHEMLINE).

2,4,6-Tribromoanisole
Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)

2,4,6-Trichlorophenol
Phenol, 2,4,6-trichloro-

2,4,6-Trinitrofenolo
Picric acid (8 CI); Phenol, 2,4,6-trinitro

2,4,6-Trinitrophenol
Picric acid (8 CI); Phenol, 2,4,6-trinitro

2,4-D
Acetic acid, (2,4-dichlorophenoxy)-

2,4-D Acid
Acetic acid, (2,4-dichlorophenoxy)-

2,4-Dibromoanisole
Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)

2,4-Dichlorodiphenyl-ether
2,4-Dichlorodiphenyl ether (No postings in CHEMLINE).

2,4-Dinitro-6-aminophenol
Phenol, 2-amino-4,6-dinitro-

2,5,2',5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

2-(2-chlorphenyl)-2-(4-chlorophenyl)-1,1,1-trichloroet hane
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

2-Aethylamino-4-chlor-6-isopropylamino-1,3,5-triazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

2-Amino-4,6-dinitrophenol
Phenol, 2-amino-4,6-dinitro-

2-Amino-4-(methylthio)butyric acid
Methionine, L- (8 CI); L-Methionine (9 CI)

2-Chloro-4-(2-propylamino)-6-ethylamino-s-triazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

2-Chloro-4-ethylamino-6-isopropylaminotriazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

2-Ethylhexyl phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

2-Furanmethanimine, 5-nitro-N-(2-oxo-3-oxazolidinyl)-
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

2-Furfurylamino-4-chloro-5-sulfamoylbenzoic acid 4-chloro-N-(2-furylmethyl)-5-sulfamoylanthranilic a
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

2-Hydroxy-1,3,5-trinitrobenzene
Picric acid (8 CI); Phenol, 2,4,6-trinitro

2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydro
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

2-Propenamide
2-Propenamide

25-Hydrocholecalciferol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxy D3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxy-5,6-trans-cholecalciferol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxycholecalciferol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxyvitamin D3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

3',4'-Dichloropropionanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

3,17-Epidihydroxyestratriene
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

3,17beta-Dihydroxyestra-1,3,5(10)-triene
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

3,17beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

3,20-dioxo-11beta,17alpha,21-trihydroxy-1,4-pregnadien e
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

3,4-Benz(a)pyrene
Benzo(a)pyrene

3,4-Benzopyrene
Benzo(a)pyrene

3,4-Benzopyrene [carcinogen]
Benzo(a)pyrene

3,4-Dichloro-alpha,alpha,alpha-trifluorotoluene
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

3,4-Dichlorobenzotrifluoride
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

3,4-Dichlorophenyltrifluoromethane
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

3,4-Dichloropropionanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4 ,6,8-nonatetraen-1-ol
Vitamin A

3-(Dimethoxyphosphinyloxy)-N,N-dimethyl-cis-crotonami de
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

3-Chlorochlordene
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

3-Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

3-Hydroxydimethyl crotonamide dimethyl pho
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

3-Nitro-1-propanol
1-Propanol, 3-nitro-

3-Nitropropanoic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

3-Nitropropanol
1-Propanol, 3-nitro-

3-Nitropropionic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

3beta-Hydroxycholest-5-ene
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

4'-(2-Hydroxy-3-(isopropylamino)propoxy)acetanilide
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

4,4'-DDD
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

4,4'-DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

4,4'-Dichloro-1,1'-biphenyl
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

4,4'-Dichlorobenzophenone
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

4,4'-Dichlorobiphenyl
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

4,4'-Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

4,6-Dinitro-2-aminophenol
Phenol, 2-amino-4,6-dinitro-

4,9,11-estratrien-17beta-ol-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

4-Aminopyridine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

4-Chloro-1,1'-biphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

4-Chlorobiphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

4-Chlorodiphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

4-Chlorophenyl methyl sulfone
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

4-Deoxynivalenol
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

4-Hydroxyaflatoxin B2
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy-

4-pregnene-11beta,17alpha,21-triol-3,20-dione
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

4-Pyridylamine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

5,6-cis-25-Hydroxy vitamin D3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

5-Benzyl-3-furylmethyl(+-)-cis,trans-chrysanthemate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

5-Benzylfurfuryl chrysanthemate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)-, (1R-(1alpha(Z), 2beta(S*,E),
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

5:6-Cholesten-3beta-ol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

6-Amino-2,4-dinitrophenol
Phenol, 2-amino-4,6-dinitro-

6-Hydroxy-3-methoxy-N-methyl-4,5-epoxymorphinan
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

6-Oxa-5,7-distannaundecane, 5,5,7,7-tetrabutyl-
Distannoxane, hexabutyl-

666
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

6alpha-Hydrocodol
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

7,8-Dihydrocodeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

8056HC
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

8057HC
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

9,10-Anthracenedione
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

9,10-Anthraquinone
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

9,10-Dioxoanthracene
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

A 00
Aluminum

A 561
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

A 95
Aluminum

A 99
Aluminum

A/T/S
Erythromycin

A995
Aluminum

A999
Aluminum

AA 1099
Aluminum

AA 1199
Aluminum

Aahepta
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Aalindan
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aatrex
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aavero-extra
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Abavit B
Mercury chloride

Abbocillin-DC
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Abboticin
Erythromycin

Abietic acid
Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl ethyl-)-, (1R-(1alpha,4abeta,4balpha,10aalpha))- (9 CI)

Abietic acid, dehydro-
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI)

AC 222,705
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

AC 222705
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

AC 92100
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-(((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

Accothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Acephate
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Acephate-Met
Phosphoramidothioic acid, O,S-dimethyl ester

Acetamidophos
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Aceto-Caustin
Acetic acid, trichloro-

Acide picramique
Phenol, 2-amino-4,6-dinitro-

Acide picrique
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Acide propionique
Propionic acid (8 CI); Propanoic acid (9 CI)

Acidin
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Acido picrico
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Acidol
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Acimetion
Methionine, L- (8 CI); L-Methionine (9 CI)

Acon
Vitamin A

Acrylamide
2-Propenamide

Acrylic amide
2-Propenamide

Actinite PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

AD 1
Aluminum

AD1-M
Aluminum

Adakane 12
Dodecane

Adamycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Adenohypophyseal growth hormone
Somatotropin

ADO
Aluminum

AE
Aluminum

Afaxin
Vitamin A

Aficide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aflatoxin B1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,9aalpha-tetrahydro-4-methoxy- (8 CI) Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,9a-tetrahydro-4-methoxy-, (6aR-cis)- (9 CI)

Aflatoxin B2
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

Aflatoxin M1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,9a-tetrahydro-9a-hydroxy-4-methoxy-, (6aR-cis)-

Aflatoxin M2
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy-

Afsillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Agiolan
Vitamin A

Agolutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Agria 1050
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Agritan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Agriya 1050
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Agroceres
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Agrocide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Agrocide III
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Agrocide WP
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Agrothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Alsemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Akotion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Akrylamid
2-Propenamide

Akticon
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktikon
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktikon PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktinit A
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktinit PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Albocarbon
Naphthalene

Aldocit
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Aldrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Aldrin Epoxide
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Alert-Pep
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Alficetyn
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

all-trans-Retinyl acetate
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Allbri Natural Copper
Copper

Alltox
Toxaphene

alpha,alpha-Bis(p-chlorophenyl)-beta,beta,beta-trichlo rethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

alpha-1,2,3,4,5,6-Hexachlorcyclohexane alpha-1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Amino-gamma-methylmercaptobutyric acid
Methionine, L- (8 CI); L-Methionine (9 CI)

alpha-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Chlordan
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

alpha-Chlordane
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

alpha-HCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachlorcyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

Alphalin
Vitamin A

Altabactina
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Altafur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Altrad
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Aluminium
Aluminum

Aluminium Flake
Aluminum

Aluminum
Aluminum

Aluminum A00
Aluminum

Aluminum Dehydrated
Aluminum

Aluminum Powder
Aluminum

Aluminum-27 CI 77000
Aluminum

Alvit 55
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Am-241
Americium, isotope of mass 241

Amatin
Benzene, hexachloro-

Ambush
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Ambushfog
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Amchem Grass Killer
Acetic acid, trichloro-

Ameisenmittel merk
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Ameisentod
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Americium-241
Americium, isotope of mass 241

Amianthys
Asbestos

Ammonia gas
Ammonia

Amoglandin
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Amphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Amphicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Amprocidum
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprol, Veterinary
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprolium
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprolium chloride
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprovine
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amseclor
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Anac 110
Copper

Anatola
Vitamin A

Anatox
Toxaphene

Anterior pituitary growth hormone
Somatotropin

Anthracen
Anthracene

Anthracene
Anthracene

Anthracene, 9,10-dihydro-9,10-dioxo-
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Anthracin
Anthracene

Anthradione
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Anthraquinone
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Anti-infective vitamin
Vitamin A

Anti-inflammatory hormone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Anticarie
Benzene, hexachloro-

Anticoccid
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Antigal
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Antimony
Antimony

Antixerophthalmic vitamin
Vitamin A

Antultrin-Growth
Somatotropin

AO Al
Aluminum

Aoral
Vitamin A

Aparasin
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Apexol
Vitamin A

Aphtiria
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aplidal
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Apostavit
Vitamin A

Aquacillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobensoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobensoate (1:1), monohydrate (9 CI)

Aquadiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Aquasol A
Vitamin A

Aquasuspen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobensoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobensoate (1:1), monohydrate (9 CI)

AR2
Aluminum

Arbitex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Arbogal
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Argentum
Silver

Argesin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Arkotine
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Armco iron
Iron

Arochlor 1254
Arochlor 1254

Arochlor 1260
Arochlor 1260

Aroclor 1016
Aroclor 1016

Aroclor 1242
Arochlor 1242 (No postings in CHEMLINE).

Arsenic
Arsenic

Arsenic black
Arsenic

Arsenic sesquioxide
Arsenic oxide [As2O3]

Arsenic trioxide
Arsenic oxide [As2O3]

Arsenic-75
Arsenic

Arsenicum album
Arsenic oxide [As2O3]

Arsenious oxide
Arsenic oxide [As2O3]

Arsenous anhydride
Arsenic oxide [As2O3]

Arsenous oxide
Arsenic oxide [As2O3]

Arsodent
Arsenic oxide [As2O3]

Arwood copper
Copper

Asbestos
Asbestos

Asbestos fiber
Asbestos

Atav
Vitamin A

Ataxinax
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atranex
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrasine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrataf
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atred
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Austracol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitrophenethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

AV00
Aluminum

AV000
Aluminum

Avibon
Vitamin A

Avita
Vitamin A

Avitol
Vitamin A

Avloprocil
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alpha,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Avlothane
Ethane, hexachloro-

Axerol
Vitamin A

Axerophthol
Vitamin A

AY 2101
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Azofos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Azophos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Azotox M-33
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

B-Selektonon
Acetic acid, (2,4-dichlorophenoxy)-

Ba 51-090453
Dodecane

Banthionine
Methionine, L- (8 CI); L-Methionine (9 CI)

Bardiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Barium
Barium

Bausudin
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

BAY 11405
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Bay 30130
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

BAY 41831
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Bay 71628
Phosphoramidothioic acid, O,S-dimethyl ester

Bayer 41831
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Bayer 5546
Phosphoramidothioic acid, O,S-dimethyl ester

Bayer 71628
Phosphoramidothioic acid, O,S-dimethyl ester

Bayer S 5660
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

BBH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Belmark
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Belt
Chlordane

Ben-Hex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Bentox 10
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Bens(a)pyrene
Benzo(a)pyrene

Bensene tetrachloride
Bensene, 1,2,4,5-tetrachloro-

Bensene, 1,2,4,5-tetrachloro-
Bensene, 1,2,4,5-tetrachloro-

Bensene, 1,2,4-trichloro-
Bensene, 1,2,4-trichloro-

Bensene, 1,3,5-trichloro-
Bensene, 1,3,5-trichloro-

Bensene, m-dichloro-
Bensene, 1,3-dichloro-

Bensenol
Phenol

Benzo(d,e,f)chrysene
Benzo(a)pyrene

Benzoepin
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Benzofuroline
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Benzyfuroline
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Benzylpenicillin potassium salt
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Benzylpenicillin potassium
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Benzylpenicillin procaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Benzylpenicillinic acid potassium salt
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Benzit
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Berkmycen
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Beronald
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

beta-1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Bensene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

beta-HCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Hexachlorobensene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Nitropropionic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

Betaine, hydrochloride
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Bexol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Bichloride of mercury
Mercury chloride

Bichlorure de mercure
Mercury chloride

Bidrin
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

BIO 5,462
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Bio-luton
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

BioMeT 66
Distannoxane, hexabutyl-

BioMeT SRM
Distannoxane, hexabutyl-

BioMeT TBTO
Distannoxane, hexabutyl-

Biostat
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Biostat PA
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Biosterol "Dohyfral" A
Vitamin A

Biphenyl, chlorinated
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

Bis(2-ethylhexyl)1,2-benzenedicarboxylate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Bis(2-ethylhexyl)phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Bis(4-chlorophenyl)ketone
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

Bis(tri-n-butylstnn)-oxyd
Distannoxane, hexabutyl-

Bis(tributyltin)oxide
Distannoxane, hexabutyl-

Bis-(tri-n-butylcin)oxid
Distannoxane, hexabutyl-

Bisoflex 81
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Bisoflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Blue powder
Zinc

BNP
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

Bosan supra
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Bovidermol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Bovinocidin
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

BP
Benzo(a)pyrene

Brodifacoum
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl)-4-hydroxy-

Bromine
Bromine

Bunt-cure
Benzene, hexachloro-

Bunt-no-more
Benzene, hexachloro-

Butanoic acid, 2-amino-4-(methylthio)-, (S)-
Methionine, L- (8 CI); L-Methionine (9 CI)

Bute hydrocarbon
Pentadecane, 2,6,10,14-tetramethyl-

Butinox
Distannoxane, hexabutyl-

Butter of arsenic
Arsenic oxide [As2O3]

Butyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

C 46
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

C 709
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

C-14
Carbon, isotope of mass 14

C-Sn-9
Distannoxane, hexabutyl-

C.I. 10305
Picric acid (8 CI); Phenol, 2,4,6-trinitro

C.I. 77050
Antimony

C.I. 77180
Cadmium

C.I. 77320
Cobalt

C.I. 77400
Copper

C.I. 77575
Lead

C.I. 77775
Nickel

C.I. 77805
Selenium

C.I. 77820
Silver

C.I. 77860
Tin

C.I. Pigment Metal 2
Copper

C.I. Pigment Metal 4
Lead

C.I. Pigment Metal 5
Tin

Cadmium
Cadmium

CAF
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cafeina
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Caffein
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Caffeine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Cafipel
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Calcifediol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

Calcium
Calcium

Calochlor
Mercury chloride

CAM
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Camphechlor
Toxaphene

Camphochlor
Toxaphene

Candex
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

CAP
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Carbazotic acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Carbicron
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Carbolic acid
Phenol

Carbomicron
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Carbon hexachloride
Ethane, hexachloro-

Carbon-14
Carbon, isotope of mass 14

Carboxyethane
Propionic acid (8 CI); Propanoic acid (9 CI)

Catilan
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

CD-68
Chlordane

CDA 101
Copper

CDA 102
Copper

CDA 110
Copper

CDA 122
Copper

Cefotaxime
5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 3-((acetyloxy)methyl)-7-(((2-amino-4-thiazolyl) (methoxyimino)acetyl)amino)-8-oxo-, (6R-trans)-

Cekusina-T
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Celanex Chloresene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachioro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Celluflex DPB
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Cerium
Cerium

Cervilaxin
Relaxin

Cesium
Cesium

Cesium-133
Cesium

Cesium-137
Cesium, isotope of mass 137

Cetane
Hexadecane

CG-1283
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Chem rice
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Chemicetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chemicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chevron 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Chevron Ortho 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Chinetrin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Chlomycol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlor Kil
Chlordane

Chloramex
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloramicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloramsaar
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlordan
Chlordane

Chlordan, cis-
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI)
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

Chlordane
Chlordane

Chlordane (Technical)
Chlordane

Chlordecone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Chlorid rtutnaty
Mercury chloride

Chlorinated camphene
Toxaphene

Chlorinated diphenyl
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

Chlorobenzene
Benzene, chloro-

Chlorocaps
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorocid
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorocide
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorocidin ☐ Chlorocidin C tetran
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloromycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloronitrin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorophenothane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Chlorphenothan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Chlorphenotoxum
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Chlorthiepin
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Chlorure mercurique
Mercury chloride

Cholest-5-en-3beta-ol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesterin
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesterol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesterol base H
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesteryl alcohol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Chromium
Chromium

Chromosin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Chryson
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Chrysron
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Clazinon
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

CIBA 709
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Cidocetine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cilicaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Cilloral
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Ciplamycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

cis-2-Dimethylcarbamoyl-1-methylvinyl dimethylphosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

cis-Chlordan
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

cis-Chlordane
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

cis-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

cis-Nonachlor
4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha, 4,7,7-aalpha-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro- (1alpha ,2alpha,3alpha,3aalpha,4beta,7aalpha- (9 CI)

Citox
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

CKB 1220
Phosphoramidothioic acid, O,S-dimethyl ester

CL 47300
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Clofenotan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Clofenotane DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Cloramphicin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Clordecone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Cloroben
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

Clorocyn
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cloromisan
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Co-Hydeltra
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Co-op Hexa
Benzene, hexachloro-

Cobadex
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cobalt
Cobalt

Cobalt-59
Cobalt

Cobalt-60
Cobalt, isotope of mass 60

Codechine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Codelcortone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Coffeine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Cohydrin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Cohydrine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Colecalciferol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3bcta,5Z,7E)- (9 CI)

Colloidal manganese
Manganese

Compd. 269
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Compound 118
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1 1,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Compound 1189
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Compound 497
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Compound 889
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Coopex
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Copper
Copper

Copper M 1
Copper

Copper powder
Copper

Corbit
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Cordulan
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Corlutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corlutina
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corluvite
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corodane
Chlordane

Corpagen
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Corporin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corpus luteum hormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corrosive mercury chloride
Mercury chloride

Corrosive sublimate
Mercury chloride

Cort-dome
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortanal
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortef
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortenema
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Corticreme
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortifan
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortifoam
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortiment
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortispray
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortonema
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortril
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Counter
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

CP 47114
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

CPh
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Crescormon
Somatotropin

Crisazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Cristapen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Crotonamide, 3-hydroxy-N,N-dimethyl-, cis-, dimethyl phosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Cryptopimaric acid
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Crysticillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2a!pha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Cs-137
Cesium, isotope of mass 137

Cu M5
Copper

CuEP
Copper

CuEPP
Copper

Cutaval
Manganese

Cyano(3-phenoxyphenyl)methyl 4-chloro-alpha-(1-methylethyl)benzeneacetate
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Cyazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

CyBolt
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Cyclopentadiene, hexachloro-, dimer
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (4-(2-benzyl)furyl) methyl ester
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Cylphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cymethion
Methionine, L- (8 CI); L-Methionine (9 CI)

Cynaron
Methionine, L- (8 CI); L-Methionine (9 CI)

D-(-)-Chloramphenicol D-threo-Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

D-(-)-threo-Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

d-3,17beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

D-Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

D3-Vigantol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Dabicycline
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Dacutox
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dalf
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dalzic
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Darifur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Dassitox
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

DBH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

DBP
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

DBP
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

DCBP
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

DCPA
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

DCuP1
Copper

DDD
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

DDMU
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

DDT, total
DDT, total (No postings in CHEMLINE).

Decachloroketone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[cd]pent alen-2-one
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Decachloropentacyclo(5.2.1.0(2,6).0(3,9).0(5),(8))deca n-4-one
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Decemthion
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Decemthion P-6
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Dechlorane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane 4070
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane 515
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane Plus
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane Plus 515
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Decortin H
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Dehacodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

DEHP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Dehydroabietic acid
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI)

Dehydronivalenol
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

Delsterol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Delta F
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

delta(1)-Cortisol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

delta(1)-Dehydrocortisol delta(1)-Dehydrohydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

delta(4)-Pregnene-3,20-dione
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Delta-Cortef
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Delta-Ef-Cortelan
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Delta-stab
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltacortenol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltacortril
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltahydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltiallone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Demethylfenitrothion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Deoval
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Deoxynivalenol
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

Deparol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Depo-Penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Desdemin
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Despacillina
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Detmol-Extrakt
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Detox
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Detoxan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Detreomycin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Devoran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Dextropimaric acid
Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-t rimethyl-, (1R-(1alpha,4abeta,4balpha, 7beta,10aalpha))- (9 CI)

Dezodorator
Naphthalene

DF 118
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

DH-codeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Di(Ethylhexyl)phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Di(p-methoxyphenyl)trichloromethyl methane
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Di-(2-Ethylhexyl)-phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Di-Adreson F
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Di-chloricide
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Di-n-butyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Diafuron
2-Oxasolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Diarsenic trioxide
Arsenic oxide [As2O3]

Diazinon
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Diazinon AG 500
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Diazinone
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dibovin
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dibutyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Dichloricide aerosol
Strobane

Dichloricide mothproofer
Strobane

Dichlorodiphenyl dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dichloromercury
Mercury chloride

Dichlorophenoxyacetic acid
Acetic acid, (2,4-dichlorophenoxy)-

Dichloropropionanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Dicid
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dicophane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dicopur
Acetic acid, (2,4-dichlorophenoxy)-

Dicrotofos
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Dicrotol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Dicrotophos
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Didrate
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dieldrex
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dieldrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dielmoth
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dietary calcium
Calcium

Diflubensuron
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Difluron
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Dihydrin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dihydroaflatoxin B1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

Dihydroaflatoxine B1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

Dihydrocodeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dihydrocortisone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Dihydrofollicular hormone
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydrofolliculin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydromenformon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydroneopine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dihydrostreptomycin
Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1, 2)-O-5-d eoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bi s(aminoiminomethyl)- (9 CI)

Dihydrotheelin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydroxyestrin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dilatin DB
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

Dildrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dilene
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Dimenformon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dimethoxy-DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Dimethoxy-DT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Dimethyl 3-(2-methyl-1-propenyl)cyclopropanecarboxylate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Dimethyl 4-nitro-m-tolyl phosphorothionate
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Dimethyl 4-nitrophenyl phosphorothionate
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dimethyl p-nitrophenyl thiophosphate
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dimethyl parathion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dimethyl phosphate of 3-Hydroxy-N,N-dimethyl-cis-crotonamide
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Dimilin
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Dimpylat
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dimpylate
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dinoprost
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Diocode
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dioctyl phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Diogyn
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Diogynets
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dioxin
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

Dipram
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Distaquaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Distokal
Ethane, hexachloro-

Distopan
Ethane, hexachloro-

Distopin
Ethane, hexachloro-

Diurnal-Penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

DMDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Dodat
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dodecachlorooctahydro-1,3,4-metheno-2H-cyclobuta(cd)pe ntalene
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dodecachloropentacyclodecane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dol Granule
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Domolene-HC
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Donisolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Dorytox
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dotycin
Erythromycin

Dowicide 2S
Phenol, 2,4,6-trichloro-

Dowicide 7
Phenol, pentachloro-

Dowtherm E
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

DPA
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Drilltox-Spezial Aglukon
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Drocode
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

DST
Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1, 2)-O-5-d eoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bi s(aminoiminomethyl)- (9 CI)

DU 112307
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Dugoran
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Duracillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Duromorph
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Dusoline
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Dykol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dyprin
Methionine, L- (8 CI); L-Methionine (9 CI)

Dythol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

E 3314
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

E-Cu57
Copper

E-Mycin
Erythromycin

Easolin D
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ectiban
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

EDDI
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

EF-Cortelan Efcortelan
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Efcorbin
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Efcorlin
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Egitol
Ethane, hexachloro-

EI 47300
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Eicosane
Eicosane

Ektafos
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Elaol
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Emany Atomised Aluminum Powder
Aluminum

Embacetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Enciol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Endosulfan
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Endosulfan 35EC
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Endosulphan
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Endrex
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Endricol
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Endrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

ENT 15,152
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

ENT 15,949
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

ENT 19,442
Strobane

ENT 19,507
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

ENT 23,979
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

ENT 24,482
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

ENT 24,979
Distannoxane, hexabutyl-

ENT 25,584
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI)

ENT 25,705
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

ENT 25,715
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

ENT 25,719
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

ENT 27,396
Phosphoramidothioic acid, O,S-dimethyl ester

ENT 27474
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl)methyl ester (9 CI)

ENT 29054
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

ENT 4,255
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

ENT 7,796
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ENT-1506
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

ENT-16225
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

ENT-16391
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Enteromycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Enterotoxon
2-Oxasolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Entomoxan
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Enzaprost
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Enzaprost F
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

EO5A
Iron

EP 30
Phenol, pentachloro-

Epiderm H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Epiteliol
Vitamin A

Epoxyheptachlor
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

Eraldin
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Eranol
Iodine

Errolon
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Ery-Tab
Erythromycin

ERYC
Erythromycin

Erycin
Erythromycin

Erycinum
Erythromycin

EryDerm
Erythromycin

Erythro
Erythromycin

Erythrocin
Erythromycin

Erythrogran
Erythromycin

Erythroguent
Erythromycin

Erythromycin
Erythromycin

Erythromycin A
Erythromycin

Esiderm H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Eskacillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Esteron 99
Acetic acid, (2,4-dichlorophenoxy)-

Estonate
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Estonox
Toxaphene

Estra-1,3,5(10)-triene-3,17-beta-diol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Estra-1,3,5-triene
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Estrogens, conjugated
Estrogens, conjugated (No postings in CHEMLINE).

Estrol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Estrovite
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ethane hexachloride
Ethane, hexachloro-

Ethane, 1,1,1-trichloro-2,2-bis(4-chlorophenyl)
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Ethane, hexachloro-
Ethane, hexachloro-

Ethanecarboxylic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Ethylene hexachloride
Ethane, hexachloro-

Ethylenecarboxamide
2-Propenamide

Ethylenediamine dihydroiodide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Ethylformic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Ethylhexyl phthalate Eviplast 80
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Eulan WA New
Eulan WA New

Eviplast 81
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Evola
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Exmin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Exodin
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Experimental Insecticide 269
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

F-150
2-Oxasolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Falapen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Falithion Fenition
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Falkitol
Ethane, hexachloro-

Fanterrin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Farmicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Fasciolin
Ethane, hexachloro-

Fe-55
Iron, isotope of mass 55

Femestral
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Femogen
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Fenamin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Fenamine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Fenatrol
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Fenbendazol
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Fenbendazole
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Fenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Fenitrothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Fenvalerate
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Fernimine
Acetic acid, (2,4-dichlorophenoxy)-

Fernisolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ferrovac E
Iron

Ficortril
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Flavolutan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Flexdmel
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Flexol DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Flo-Cillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Flucythrinate
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Fluoride
Fluoride

Fluoride ion
Fluoride

Fluorine ion (1-)
Fluoride

Fluorocythrin
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Flytrol
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

FMC 17370
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

FMC 33297
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

FMC 41655
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Folidol M Folidol M-40
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Folithion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Follicyclin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Fologenon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

For-Syn
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Foredex 75
Acetic acid, (2,4-dichlorophenoxy)-

Forpen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Forst-Nexen
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Fourrine 4R
Phenol, 2-amino-4,6-dinitro-

Fourrine 93
Phenol, 2-amino-4,6-dinitro-

Frusemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Frusemin
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Ftalophos
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Fulsix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fuluvamide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fuming liquid arsenic
Arsenic oxide [As2O3]

Funachex
Mercury chloride

Fungifen
Phenol, pentachloro-

Furaltadone
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furanthril
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furanthryl
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furantril
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furaxon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furaxone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furazol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furazolidon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furazolidone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furazolin
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furazoline
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furazon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furesis
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furidon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furmethanol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furmethonol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furmetonol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furosemid
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furosemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furox
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furoxal
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furoxane
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furoxone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furoxone swine mix
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furosolidine
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

Furre 4R
Phenol, 2-amino-4,6-dinitro-

Fursemid
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fursemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fusid
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

FW 734
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

G 30027
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

G 301
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

G-24480
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Galesan
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Gamma benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Aminopyridine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

gamma-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-HCH gamma-Hexachloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorobenzene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Methylthio-alpha-aminobutyric acid
Methionine, L- (8 CI); L-Methionine (9 CI)

Gammater
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Garden Tox
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

GC 1189
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

GC 1283
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Genacort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Geniphene
Toxaphene

Genoplast B
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Gentamicin
Gentamicin

Gentamycin
Gentamicin

Geomycin [Streptomyces vimosus]
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Gesafid
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Gesaprim
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Gesarol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Gesoprim
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Gesterol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gesterol 50
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gestone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gestormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gestron
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Glardil
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Glarlam
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Ginosedol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Glanducorpin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Globenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

GPKh
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Grascide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Green Oil
Anthracene

Grey arsenic
Arsenic

Growth hormone
Somatotropin

Grundier Arbesol
Phenol, pentachloro-

Guaranine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Gyncestryl
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Gynergon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Gynlutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gynolutone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Hamidop
Phosphoramidothioic acid, O,S-dimethyl ester

HC
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

HCB
Benzene, hexachloro-

HCBD
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

HCC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HCCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HCE
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

HCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HCH
Hexachlorocyclohexane, total (No postings in CHEMLINE).

Heb-Cort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Heclotox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hedonal [herbicide]
Acetic acid, (2,4-dichlorophenoxy)-

HEOD
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Hepta
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Heptachlor
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Heptachlor epoxide
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

Heptachlorane
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Hercules 3956
Toxaphene

Hexa
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexabutyldistannoxane
Distannoxane, hexabutyl-

Hexachlor-aethan
Ethane, hexachloro-

Hexachloran Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexachloro-1,3-butadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Hexachlorobenzene
Benzene, hexachloro-

Hexachlorobutadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Hexachlorocyclohexane
Hexachlorocyclohexane, total (No postings in CHEMLINE).

Hexachlorocyclopentadiene dimer
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Hexachloroethane Hexachloroethylene
Ethane, hexachloro-

Hexadrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Hexaplas M/B
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Hexaverm
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexchlorobutadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Hexicide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexyclan
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HGI
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HHDN
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Hi-O-Dide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hidro-Collsona
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hipercilina
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Hiptagenic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

HOE 2,671
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

HOE 881
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

HOE 881V
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Hoelite
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Hoffman bonded E-D-D iodine compound
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hormoflaveine
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Hormoluton
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Hormone somatotrope
Somatotropin

Hortex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hostetex L-PEC
Benzene, 1,2,4-trichloro-

Hostocrotin H
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hungaria L 7
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hungasin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Hungasin PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Hy-odide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hyasorb
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Hycort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hycortol
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hycortole
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydeltra
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydeltrone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrasson
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydriodide-boot
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hydriodide-c-dide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hydro-Adreson
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocerin
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Hydrocodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Hydrocorticosterone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocortisone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocortisone free alcohol
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocortisyl Hydrocortone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrodeltalone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrodeltisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrodine
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hydrofluoric acid, ion (1-)
Fluoride

Hydroretrocortin
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrovit A
Vitamin A

Hydroxybensene
Phenol

Hylenta
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Hypophyseal growth hormone
Somatotropin

Hytone Lotion
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

I 337A
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

I-125
Iodine, isotope of mass 125

I-131
Iodine, isotope of mass 131

Ibifur
2-Oxasolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

ICI 50172
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

ICI-PP 557
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Illoxol
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Ilotycin
Erythromycin

Imidan
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Imidathion
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Incortin-H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Insectlack
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Intox
Chlordane

Intox [insecticide]
Chlordane

Intramycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

IOD-Ethamine
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Iodine
Iodine

Iodine ((127)I2)
Iodine

Iodine colloidal
Iodine

Iodine crystals
Iodine

Iodine sublimed
Iodine

Iodine-125
Iodine, isotope of mass 125

Iodine-127
Iodine

Iodine-129
Iodine, isotope of mass 129

Iodine-131
Iodine, isotope of mass 131

Iosan Superdip
Iodine

Ipaner
Acetic acid, (2,4-dichlorophenoxy)-

Iron
Iron

Iron-55
Iron, isotope of mass 55

Ismicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Isodextropimaric acid
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Isopimaric acid
Podocarp-7-en-15-oic acid, 13beta-methyl-13-vinyl-, (-)- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Ivoran
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Isal
Phenol

Jacutin
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

JISC 3108
Aluminum

JISC 3110
Aluminum

Jodethamine
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Julin's carbon chloride
Benzene, hexachloro-

Juvamycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kabipenin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Kafar copper M1 [copper]
Copper

Kafil
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Kamaver
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kamfochlor
Toxaphene

Karbicron
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Kathro
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Katlex
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Bensoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Kemicetine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kendall's compound F
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Kepone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Kestrel [pesticide]
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Ketrax
Imidaso(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Klorita Klorocid S
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kodaflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Bensenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Koffein
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Kokotine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Kombi-Albertan
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd rc-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Kortofil
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

KS-4
Lead

Kwell
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Kypchlor
Chlordane

Kyslicnik tri-n-butylcinicity
Distannoxane, hexabutyl-

L 8
Silver

L16
Aluminum

Lamdiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Lanol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Lanthanium
Lanthanum

Lanthanum
Lanthanum

Lard-factor
Vitamin A

Lasex Lasilix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lasix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lastanox F
Distannoxane, hexabutyl-

Lastanox Q
Distannoxane, hexabutyl-

Lastanox Q1
Distannoxane, hexabutyl-

Lastanox T
Distannoxane, hexabutyl-

Lastanox T 20
Distannoxane, hexabutyl-

Lauxtol
Phenol, pentachloro-

LB 502
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lead
Lead

Lead Flake
Lead

Lead of mass 210
Lead, isotope of mass 210

Lead S2
Lead

Lead-210
Lead, isotope of mass 210

Ledercillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Lendine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lenocycline
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Lentopen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Lentox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Leukomyan
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Leukomycin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Levamisol
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Levamisole
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Levomicetina
Acetamide, 2,2-dichloro-*N*-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph ene'hyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-*N*-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Levomitsetin
Acetamide, 2,2-dichloro-*N*-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-*N*-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Levomycetin
Acetamide, 2,2-dichloro-*N*-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-*N*-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Levomysol
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Levotetramisol
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Lidenal
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindatox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindosep
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lintox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Linvur
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lipo-Lutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Liquamycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Liquapen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Liroprem
Phenol, pentachloro-

Lithium
Lithium

Lobamine L-(-)-Methionine
Methionine, L- (8 CI); L-Methionine (9 CI)

Loha
Iron

Lorexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Loromisin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Lowpetron
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lucorteum sol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luprosil
Propionic acid (8 CI); Propanoic acid (9 CI)

Luteal hormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteinique
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteocrin normale
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteodyn
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteogan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteohormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteopur
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteosan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteostab
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteovis
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutex
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutidon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutocyclin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutocyclin M
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutocylin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutoform
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutogyl
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutren
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutromone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lycine hydrochloride
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

M 1
Copper

M 3
Copper

M 4
Copper

M 5055
Toxaphene

m-Dibromobenzene
Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)

m-Dichlorobenzene
Benzene, 1,3-dichloro-

m-Dichlorobenzol
Benzene, 1,3-dichloro-

M-Parathion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

m-Phenylene dichloride
Benzene, 1,3-dichloro-

M2 [copper]
Copper

M3 [copper]
Copper

M31
Copper

M38
Copper

M4 [copper]
Copper

Macasirool
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Macocyn
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Macrodiol Nordicol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Magnesium
Magnesium

Malix
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Manganese
Manganese

Marlate
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Mastiphen
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Mateina
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

MCB
Benzene, chloro-

MChVL
Molybdenum

Me1700
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Meconium
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Medaron
2-Oxasolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Medifuran
2-Oxasolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Megacillin tablets
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Melinite
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Melipax
Toxaphene

Membrettes
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Mendrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Meonine
Methionine, L- (8 CI); L-Methionine (9 CI)

MEP
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

MEP [pesticide]
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Meptox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Mepyrium
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Mercuric bichloride
Mercury chloride

Mercuric chloride
Mercury chloride

Mercuric chloride, solid
Mercury chloride

Mercury
Mercury

Mercury bichloride
Mercury chloride

Mercury dichloride
Mercury chloride

Mercury perchloride
Mercury chloride

Mercury(II) chloride
Mercury chloride

Merex
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Mertionin
Methionine, L- (8 CI); L-Methionine (9 CI)

Met
Methionine, L- (8 CI); L-Methionine (9 CI)

Metacetonic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Metacid 50
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metacide
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metacortandralone Meticortelone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Metafos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metafos [pesticide]
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metallic arsenic
Arsenic

Metallic tin
Tin

Metamidophos
Phosphoramidothioic acid, O,S-dimethyl ester

Metana
Aluminum

Metana Aluminium Paste
Aluminum

Metaphos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metathion E 50
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metathione
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metathionine E50
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metathoin
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metation
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metation E50
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Methamidophos
Phosphoramidothioic acid, O,S-dimethyl ester

Methilania
Methionine, L- (8 CI); L-Methionine (9 CI)

Methionine
Methionine, L- (8 CI); L-Methionine (9 CI)

Methoxy-DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Methoxychlor
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Methyl 4-chlorophenyl sulfone
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

Methyl acetic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Methyl ether derivative of Triclosan
Triclosan methyl (No postings in CHEMLINE).

Methyl mercury ion
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methyl parathion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Methyl pentachlorophenyl ether
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Methyl pentachlorophenate
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Methyl-E 605
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Methylmercury
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylmercury ion(1+)
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylmercury(1+)
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylmercury(II) cation
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylnaphthalene methanol
Methylnaphthalenemethanol (No postings in CHEMLINE).

Methylnitrophos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Methyltheobromine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Methylthiophos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Meti-Derm
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Metione
Methionine, L- (8 CI); L-Methionine (9 CI)

Metox
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Metron
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metron [pesticide]
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Miglawik F
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Micloretin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Microcetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Milliol 49
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Mirex
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Molecular iodine
Iodine

Molybdenum
Molybdenum

Monitor
Phosphoramidothioic acid, O,S-dimethyl ester

Monitor [insecticide]
Phosphoramidothioic acid, O,S-dimethyl ester

Monochlorobenzene
Benzene, chloro-

Monohydroxybenzene
Phenol

Monopen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Monophenol
Phenol

MonoProp
Propionic acid (8 CI); Propanoic acid (9 CI)

Monsanto CP 47114
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Montrose propanil
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Morkit
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Morphia
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphin
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphina
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphine
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphinism
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphinum
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphium
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Moth flakes
Naphthalene

Moth Snub D
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Mottenhexe
Ethane, hexachloro-

Mszycol Neo-Scabicidol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

MT 1E
Distannoxane, hexabutyl-

Mutoxan Neocid
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Mychel
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Mycinol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Mykolastanox FF
Distannoxane, hexabutyl-

Mylipen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Myvak
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Myvax
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

N-(((4-chlorophenyl)amino)carbonyl-2,6-difluorobenzami de
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

N-(3,4-dichlorophenyl)propionamide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

N-(Mercaptomethyl)phthalimide S-(O,O-dimethyl phosphorodithioate)
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

n-Alkanes
n-Alkanes (No postings in CHEMLINE).

n-Butyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

n-C13
Tridecane

n-C20
Eicosane

n-Cetane
Hexadecane

n-Dodecane
Dodecane

n-Heptadecane
Heptadecane

n-Hexadecane
Hexadecane

n-Nonadecane
Nonadecane

n-Octadecane
Octadecane

n-Pentadecane
Pentadecane

n-Tetradecane
Tetradecane

n-Tridecane
Tridecane

NA 1344
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Nadeine Novicodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Nalutron
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Naphthaline
Naphthalene

Naphthene
Naphthalene

Naphthol
Naphthol (8 CI); Naphthalenol (9 CI)

Natrium
Sodium

NCI-C00475
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

NCI-C03076
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

NCI-C04604
Ethane, hexachloro-

NCI-C06428
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

NCI-C56473
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

NCI-C60173
Mercury chloride

Neftin
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Neo-Methidin
Methionine, L- (8 CI); L-Methionine (9 CI)

Neocidol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Neocidol Neocidol [oil]
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Neoproc
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Neston
Methionine, L- (8 CI); L-Methionine (9 CI)

Nexen FB
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nexit
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nexit-stark
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nexol-E
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

NF 180
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

NF 260
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Ni 0901-S(Harshaw)
Nickel

Ni 270
Nickel

Ni 4303T
Nickel

NIA 17370
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

NIA 33297
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Niagra 5,462
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Nickel
Nickel

Nickel 270
Nickel

Nickel NP2
Nickel

Nicochloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nicolen
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nicorol
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Nifulidone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nifurazolidone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nimco Cholesterol base H Nimco cholesterol base No. 712
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Nio-A-Let
Vitamin A

Nitraldone
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Nitrite
Nitrite

Nitro-Sil
Ammonia

Nitrofurmethone
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Nitrofurmeton
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Nitrofuroxon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nitrogen
Nitrogen

Nitrogen gas
Nitrogen

Nitrogen-14
Nitrogen

Nitrophos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Nitrous acid, ion (1-)
Nitrite

Nitrox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Nitrox 80
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Nitroxanthic acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

No Bunt
Benzene, hexachloro-

No Bunt 40
Benzene, hexachloro-

No Bunt 80
Benzene, hexachloro-

No Bunt Liquid
Benzene, hexachloro-

No-Doz
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Nonachlor, cis
4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha, 4,7,7-aalpha-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha ,2alpha,3alpha,3aalpha,4beta,7aalpha- (9 CI)

Noral Aluminium
Aluminum

Noral Extra Fine Lining Grade
Aluminum

Noral Ink Grade Aluminium
Aluminum

Neramycin V
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Neromycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Norphytane
Pentadecane, 2,6,10,14-tetramethyl-

Notaral
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Novicondin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Novocaine penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

NP2
Nickel

NRDC 104
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

NRDC 143
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

NSC 10483
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

NSC 190987
Phosphoramidothioic acid, O,S-dimethyl ester

NSC 195022
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

NSC-9169
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

NSC-9704
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Nuvanol Oleosumifene
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

O,O Dimethyl O-(N,N-dimethylcarbamoyl-1-methylvinyl) phosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

O,O-Dimethyl o-(p-nitrophenyl)thionophosphate O,O-Dimethyl O-(p-nitrophenyl) thiophosphate
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

O,O-Dimethyl S-(phthalimidomethyl) dithiophosphate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

O,O-Dimethyl S-phthalimidomethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

O,O-Dimethyl-O-(1,4-dimethyl-3-oxo-4-aza-pent-1-enyl)p hosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

O,O-Dimethyl-O-(2-dimethyl-carbamoyl-1-methyl-vinyl)ph osphat
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

O,O-Dimetil-O-(1,4-dimetil-3-oxo-4-aza-pent-1-enil)-fo sfato
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

o,p'-DDT
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

O,S-Dimethyl acetylphosphoramidothioate
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

O,S-Dimethyl ester amide of amidothioate
Phosphoramidothioic acid, O,S-dimethyl ester

O,S-Dimethyl N-acetylphosphoramidothioate
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

O,S-Dimethyl phosphoramidothioate
Phosphoramidothioic acid, O,S-dimethyl ester

o-Dichlorobenzene
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

o-hexopyranosyl)oxy)oxacyclotetradecane-2,10-dione
Erythromycin

Octa-Klor
Chlordane

Octachlor epoxide
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Octalene
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

Octalox
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Octoil
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Octylphthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Oestergon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Oestra-1,3,5(10)-triene-3,17beta-diol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Oestradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Oestroglandol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

OFHC Cu
Copper

Oksisyklin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oktanex
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Oleobidrin
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Oleodiazinon
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Oleogesaprim
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Oleovitamin A
Vitamin A

Oleovitamin D3
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Omal
Phenol, 2,4,6-trichloro-

Omnitox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

OMS 1804
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

OMS 1821
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

OMS 43
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

OMS 570
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Opelor
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Optasol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Optef
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Opthochlor
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Ortasol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Orthene
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Orthene-755
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Ortho 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Ortran
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Ospalivina
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

OTBE
Distannoxane, hexabutyl-

OTC OTC [antibiotic]
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Otifuril
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Otosone-F
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Outflank
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Ovadofos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Ovadsiak
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Ovahormon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovasterol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovastevol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovex [tablets]
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovocyclin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovocylin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Owadofos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Owadsiak
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Oxacyclotetradecane-2,10-dione, 4-((2,6-dideoxy-3-C-methyl-3-O-methyl-alpha-L-ribo-hexopyran osyl)oxy
Erythromycin

Oxitetracyclin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxy-kesso-tetra
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxybensene
Phenol

Oxybis(tributyltin)
Distannoxane, hexabutyl-

Oxychlordan
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Oxychlordane
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Oxymycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxymykoin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxypam
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxyterracin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxyterracine
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxyterracyne
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxytetracyclin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxytetracycline
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxytetracycline amphoteric
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

p,p'-DDD
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

p,p'-DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

p,p'-DDMU
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

p,p'-DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

p,p'-Dichlorobenzophenone
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

p,p'-Dichlorobiphenyl
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

p,p'-Dichlorodiphenyldichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

p,p'-Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

p,p'-Dichlorodiphenyldichloroethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

p,p'-Dimethoxydiphenyltrichloroethane 1,1-Bis(p-methoxyphenyl)-2,2,2-trichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

p,p'-DMDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

p,p'-DME
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

p,p'-Methoxychlor
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

p,p'-TDE
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

p,p'-TDEE
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

p,p-DCBP
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

P-32
Phosphorus, isotope of mass 32

p-Aminopyridine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

p-Chlorobiphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

p-Chlorophenyl chloride
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

p-Chlorophenyl methyl sulfone
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

p-Dichlorobenzene
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

PAD
Polychloro-2-aminodiphenyl ether (No postings in CHEMLINE).

Palatinol AH
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Palatinol C
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Panacelan
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Panacur
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Pantomicina
Erythromycin

Pantovernil Paraxin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

PAP-1
Aluminum

Parachlorocidum
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Paracodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Paracodine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Paracortol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Paradi
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paradichlorobenzene
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paradow
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paramex
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Paramoth
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paranaphthalene
Anthracene

Parathion-methyl Parathion methyl homolog
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Parencillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Parzone
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Pay-Off
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

PBB
Polybrominated biphenyls (No postings in CHEMLINE).

PCA
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

PCB
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

PCB 1254
Arochlor 1254

PCB 1260
Arochlor 1260

PCDD
Polychlorinated dibenzo-p-dioxin (No postings in CHEMLINE).

PCDF
Polychlorinated dibenzofurans (No postings in CHEMLINE).

PChK
Toxaphene

PCN
Polychlorinated naphthalenes (No postings in CHEMLINE).

PCP
Phenol, pentachloro-

PCSD
Polychloro-2-(chloromethylsulphonamido)-diphenyl ether (No postings in CHEMLINE).

PCT
Terphenyl, chlorinated

PDB
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

PDD 60401
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

PDMS
Polydimethylsiloxane (No postings in CHEMLINE).

PEB1
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Pedraczak
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Pen-Fifty
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Penaquacaine G
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Pencap M
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Penchlorol
Phenol, pentachloro-

Penicillin G potassium salt
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Penicillin G procaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Penicillin G, procaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Penicillin potassium G, crystalline
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Penick 1382
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Penisem
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Penncap M
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Penncapthrin
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Penphene
Toxaphene

Penta
Phenol, pentachloro-

Pentachlorin
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Pentachloroanisole
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Pentachlorobenzene
Benzene, pentachloro-

Pentachloromethoxybenzene
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Pentachlorophenol
Phenol, pentachloro-

Pentachlorophenyl chloride
Benzene, hexachloro-

Pentachlorophenyl methyl ether
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Penticidum
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Pentid
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Pentids
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Perchloride of mercury
Mercury chloride

Perchloro-1,3-butadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Perchlorobenzene
Benzene, hexachloro-

Perchlorobutadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Perchlorodihomocubane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Perchloroethane
Ethane, hexachloro-

Perchloropentacyclo(5.2.1.0(2,6).0(3,9).0(5,8))decane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Percolate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Percutacrine luteinique
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Perfluoride
Fluoride

Perigen
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Perlatanol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Permasan
Phenol, pentachloro-

Permasect
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Permethrin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Permetrin Permigen W
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Permicort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Persia-Perazol
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Perthrine
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Pfizerpen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Pfizerpen-AS
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Pflanzol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

PGF2alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

PH 60-40
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Phenachlor
Phenol, 2,4,6-trichloro-

Phenacide
Toxaphene

Phenanthrene
Phenanthrene

Phenanthrol
Phenanthrenol

Phenatox
Toxaphene

Phenic acid
Phenol

Phenitrothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Phenohep
Ethane, hexachloro-

Phenol
Phenol

Phenol trinitrate
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Phenol, 2-amino-4,6-dinitro-
Phenol, 2-amino-4,6-dinitro-

Phenvalerate
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Phenyl chloride
Benzene, chloro-

Phenyl hydrate
Phenol

Phenyl hydroxide
Phenol

Phenylic acid
Phenol

Phenylic alcohol
Phenol

Phillips 1861
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

Phosmet
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phosphate de dimethyle et de 2-dimethyl carbamoyl 1-methyl vinyle
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Phosphoramidothioic acid, O,S-dimethyl ester
Phosphoramidothioic acid, O,S-dimethyl ester

Phosphoric acid, dimethyl ester, ester with (E)-3-hydroxy-N,N-dimethylcrotonamide
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-isoindol-2-yl)methyl) O,O-dimethyl ester
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phosphorus
Phosphorus

Phosphorus-31
Phosphorus

Phosphorus-32
Phosphorus, isotope of mass 32

Phthalic acid dioctyl ester
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Phthalimide, N-(mercaptomethyl)-, S-ester with O,O-dimethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phthalimido O,O-dimethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phthalimidomethyl O,O-dimethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phthalophos
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phyol
Somatotropin

Phyone
Somatotropin

Phytane
Hexadecane, 2,6,10,14-tetramethyl-

Piaponon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Picral
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Picramic acid
Phenol, 2-amino-4,6-dinitro-

Picric acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Picronitric acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pielik
Acetic acid, (2,4-dichlorophenoxy)-

Pikrinesuur
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pikrinsaeure
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pikrynowy kwas
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pimaric acid
Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-t rimethyl-, (1R-(1alpha,4abeta,4balpha, 7beta,10aalpha))- (9 CI)

Pitesin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Pittsburgh PX-138
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Pituitary growth hormone
Somatotropin

Pluchine
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Plutonium
Plutonium

Plutonium-239
Plutonium, isotope of mass 239

PMP
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Polcort H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Polonium-210
Polonium, isotope of mass 210

Polybrominated biphenyls
Polybrominated biphenyls (No postings in CHEMLINE).

Polychlorinated biphenyl
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

Polychlorinated dibenzo-p-dioxins
Polychlorinated dibenzo-p-dioxin (No postings in CHEMLINE).

Polychlorinated dibenzofurans
Polychlorinated dibenzofurans (No postings in CHEMLINE).

Polychlorinated naphthalenes
Polychlorinated naphthalenes (No postings in CHEMLINE).

Polychlorinated terphenyls
Terphenyl, chlorinated

Polychlorocamphene Strobane T
Toxaphene

Polyciser DBP
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Potassium
Potassium

Potassium benzylpenicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Potassium penicillin G
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Pounce
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

PP 557
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Practalol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Practolol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Praval
Calcium

Precortancyl
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Precortisyl
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Predne-Dome
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prednelan
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prednisolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Predonine
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prefemin
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Pregn-4-ene-3,20-dione
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Premocillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Prenolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prepalin
Vitamin A

Primatol A
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Primaze
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Primofol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Primolut
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Pristane
Pentadecane, 2,6,10,14-tetramethyl-

Pro-Pen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Proca-penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Procaine benzylpenicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Procaine penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Procanodia
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Profoliol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Progakan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestasert
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progesterol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestron
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progynon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Progynon-DH
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Prolate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Prolets
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Prolidon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Proluton
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Propanamide, N-(3,4-dichlorophenyl)-
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanex
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanid
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanil
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propenamide
2-Propenamide

Proplocine
Erythromycin

Propionic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Propionic acid 3,4-dichloroanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propionic acid grain preserver
Propionic acid (8 CI); Propanoic acid (9 CI)

Propionic acid, solution
Propionic acid (8 CI); Propanoic acid (9 CI)

Prostaglandin F2
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostaglandin F2alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostalmon F
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostin F 2 alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostin F2 alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Proteroxyna
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Protormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Provitamin A
Vitamin A

Provitamin D
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Prozoin
Propionic acid (8 CI); Propanoic acid (9 CI)

Pseudoacetic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Pu-239
Plutonium, isotope of mass 239

Puradin
2-Oxasolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

PX 104
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Pydrin
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

PZh-1M3
Iron

PZh-2
Iron

PZh1M1
Iron

PZh2M
Iron

PZh2M1
Iron

PZh2M3
Iron

PZh3
Iron

PZh3M
Iron

PZh4M
Iron

Qamlin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Queckslber chlorid
Mercury chloride

Quellada
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Quemicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Quicksilver
Mercury

R 1504
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

R 717
Ammonia

Radasin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Radium D
Lead, isotope of mass 210

Radium F
Polonium, isotope of mass 210

Radonna
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Raney alloy
Nickel

Raney copper
Copper

Raney nickel
Nickel

Rapacodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

RCH 55/5
Nickel

RE 12420
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

RE 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Red phosphorus
Phosphorus

Red Shield
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Refresh'n
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Regulus of antimony
Antimony

Reichstein's substance M
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Relaxin
Relaxin

Releasin
Relaxin

Resmethrin
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Resmetrina
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Retinol
Vitamin A

Retinyl acetate
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Rhodiachlor
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Rhothane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Rhothane D-3
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Ricketon
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Riomitsin Ryomycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Robimycin
Erythromycin

Rogue
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Roptasol
2-Oxasolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Rosemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Rothane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphe yl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

RP-Mycin
Erythromycin

Rubidium
Rubidium

S 1-165
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

S 112A
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

S 3151
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

S 5602
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

S 5660
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

s-Tetrachlorobenzene
Benzene, 1,2,4,5-tetrachloro-

s-Triazine, 2-chloro-4-ethylamino-6-isopropylamino-
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

s-Trichlorobenzene
Benzene, 1,3,5-trichloro-

S0
Lead

S1
Lead

Safidon
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Salix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Samarium
Samarium

Sandaracopimaric acid
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha,7alpha,10aalpha))- (9 CI)

Sang-gamma
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sanocide
Benzene, hexachloro-

Santochlor
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Santophen 20
Phenol, pentachloro-

Sarolex
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

SBP 1382
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-bensyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

SBP 1513
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

SBP 1513ITEC
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Scandium
Scandium

Scherisolon
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Scheroson F
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Scotcil
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

SD 2794
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

SD 3417
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

SD 3419
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

SD 3562
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

SD 43775
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Seedrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

Seguril
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Selenium
Selenium

Selenium-75
Selenium, isotope of mass 75

Sentry grain preserver
Propionic acid (8 CI); Propanoic acid (9 CI)

Sepsinol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Septicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Sharcillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Shell Silver
Silver

Sicol 150
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Sigmacort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Signef
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Silflake 135
Silver

Silicones
Organosiloxanes (No postings in CHEMLINE).

Silver
Silver

Silver atom
Silver

Silver Matt Powder
Tin

Silver metal
Silver

Simidan
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Sinafid M-48
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Sintomicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Sintomicetine R
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

SK-Penicillin G
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Smidan
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Snieciotox
Benzene, hexachloro-

Sodium
Sodium

Sodium (1+)
Sodium, ion (Na(1+))

Sodium (Na(1+))
Sodium, ion (Na(1+))

Sodium cation
Sodium, ion (Na(1+))

Sodium ion
Sodium, ion (Na(1+))

Sodium ion (Na(1+))
Sodium, ion (Na(1+))

Sodium ion(1+)
Sodium, ion (Na(1+))

Sodium metal
Sodium

Sodium(1+) ion
Sodium, ion (Na(1+))

Sodium-23
Sodium

Solmaciclina
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Somacton
Somatotropin

Somatotropin
Somatotropin

Sotropin H
Somatotropin

Spectracide
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Spirit of Hartshorn
Ammonia

Spritz-Rapidin
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Spruehpflansol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sr 999
Silver

SRA 5172
Phosphoramidothioic acid, O,S-dimethyl ester

Staflex DBP
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Staflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Stam
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stam F 34
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stam LV 10
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stam M-4
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stannicide A
Distannoxane, hexabutyl-

Stannicide O
Distannoxane, hexabutyl-

Stanomucetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitropheny!)ethyl)-,(R-(R*,R*))- (9 CI)

Stauffer R 1504
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Steran
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Sterane
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Sterolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Stevacin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

STH
Somatotropin

Stibium
Antimony

Stim
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Stockade
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Stomoxin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Stomoxin P
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Strazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Strel
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Streunex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Strobane
Strobane

Strontium
Strontium

Strontium-90
Strontium, isotope of mass 90

Sublimat
Mercury chloride

Sublimate
Mercury chloride

Sugracillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Sulem
Mercury chloride

Sulema
Mercury chloride

Sumicidin
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Sumithion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Supernox
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Surcopur
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Surpur
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

SUY B-2
Iron

Sylvic acid
Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methyl ethyl-)-, (1R-(1alpha,4abeta,4balpha,10aalpha))- (9 CI)

sym-Trichlorobenzene
Benzene, 1,3,5-trichloro-

Syndiol Theelin, dihydro-
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Syngesterone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Syngestrets
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Synpran N
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Synthetic 3956
Toxaphene

Synthomycetine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Syntolutan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Tabilin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Tafidex
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Talcord
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Talon
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl)-4-hydroxy-

Tamaron
Phosphoramidothioic acid, O,S-dimethyl ester

Tap 85
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Tar camphor
Naphthalene

Tarcortin
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Tatusinho
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

TBA
Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)

TBTO
Distannoxane, hexabutyl-

TCA
Acetic acid, trichloro-

TCB
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

TCDBD
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

TCDD
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

TDE
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Technical Chlordane
Chlordane

Tegolan
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Tenox P grain preservative
Propionic acid (8 CI); Propanoic acid (9 CI)

Teranol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Teravit
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Terbufos
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

Termitox
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Terrafungine
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Terramycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Testavol
Vitamin A

Tetra Olive N2G
Anthracene

Tetrachlorodiphenyl ethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Tetran
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Tevcocin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Texacort Lotion Topicort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

TH 60-40
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Thein
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Theine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Thimul
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Thiodan
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Thionex 1,2,3,4,7,7-hexachlorobicyclo[2.2.1]-2-heptene-5,6-bisoxymet hylene sulfite
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Thiophenit
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Thiophosphorsaeure-O,S-dimethylesteramid
Phosphoramidothioic acid, O,S-dimethyl ester

Thorium-232
Thorium

Tifomycine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Tin
Tin

Tin Flake
Tin

Tin Powder
Tin

Tionex
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Tipula
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

TL 898
Mercury chloride

Topazone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Total BHC
BHC, total (No postings in CHEMLINE).

Total HCH
BHC, total (No postings in CHEMLINE).

Toxakil
Toxaphene

Toxaphen
Toxaphene

Toxichlor
Chlordane

Toxyphen
Toxaphene

trans-Nonachlor
4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta,3alpha, 3aalpha,4beta,7beta,7aalpha)-

Transit
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Traumide
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Trenbolone
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

Treomicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Tri-6 Viton
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Triazine A 1294
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Tributyltin oxide
Distannoxane, hexabutyl-

Trichloroacetic acid
Acetic acid, trichloro-

Trichlorobis(4'-chlorophenyl)ethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Trichloroethanoic acid
Acetic acid, trichloro-

Triclosan methyl
Triclosan methyl (No postings in CHEMLINE).

Trienbolone
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

Trifurox
2-Oxasolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxasolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Trinitrophenol
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Trivitan
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Trofurit
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Trojchlorobenzen
Benzene, 1,2,4-trichloro-

Truflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

TsM1
Molybdenum

U 14583
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

U 46DP
Acetic acid, (2,4-dichlorophenoxy)-

U-14,583
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

U-14583
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Ulacort
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ultracorten H Ultracortene-H
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ultrafur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

UN 0154
Picric acid (8 CI); Phenol, 2,4,6-trinitro

UN 1344
Picric acid (8 CI); Phenol, 2,4,6-trinitro

UN 1624
Mercury chloride

UN 1848
Propionic acid (8 CI); Propanoic acid (9 CI)

Unexan-Koeder
Chlordane

Unifur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Unimoll DB
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Unimycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

unsym-Trichlorobenzene
Benzene, 1,2,4-trichloro-

Uranium I [(238)U]
Uranium

Uranium-238
Uranium

Urea, 1-(m-chlorophenyl)-3-(2-(diethylamino)ethyl-2-thio- 1-(4-Chlorophenyl)-3-(2,6-difluorobenzoyl)
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Urex
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

USAF DO-4
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

USAF EA-1
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

V 9
Silver

Vafiol
Vitamin A

Valsyn
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Vanadium
Vanadium

Vanadium-51
Vanadium

Vectal
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Vectal SC
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Velsicol 104
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Velsicol 1068 1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-metha noindene
Chlordane

Velsicol 53-CS-17
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

Vendarcin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Verthion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Verton 2-D
Acetic acid, (2,4-dichlorophenoxy)-

Verton 2D
Acetic acid, (2,4-dichlorophenoxy)-

Vestinol AH
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Vi-Alpha
Vitamin A

vic-Trichlorobenzene
Benzene, 1,2,3-trichloro-

Vidon 638
Acetic acid, (2,4-dichlorophenoxy)-

Vigorsan
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Vinicizer 80 Witcizer
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Vitamin A
Vitamin A

Vitamin A acetate
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Vitamin A alcohol
Vitamin A

Vitamin A(1)
Vitamin A

Vitamin D3
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Vitarrine
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Vitavel A
Vitamin A

Viting Dan-Dee-3
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Vitpex Vogan
Vitamin A

VMI 10-3
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

Vofatox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Vogan-Neu
Vitamin A

Vomitoxin
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

W 1164-3
Relaxin

Wang
Tin

WBA 8119
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl)-4-hydroxy-

Weedex A
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

White arsenic
Arsenic oxide [As2O3]

White phosphorus
Phosphorus

White tar
Naphthalene

Whitmoyer ethylene diamine dihydriodide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Witcizer 300
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

WL 43479
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

WL 43775
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Wofatox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Wofotax
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Wonuk
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Wood alcohols B.P.
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Wycillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Yellow phosphorus
Phosphorus

Zeapos
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Zeazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Zeazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Zerdane
Ethane, 1,1,1-trichloro-2,2-bis(p-calorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Zinc
Zinc

ZOBA 4R
Phenol, 2-amino-4,6-dinitro-

[component of] Eulan WA New
Polychloro-2-(chloromethylsulphonamido)-diphenyl ether (No postings in CHEMLINE).

[component of] Eulan WA New
Polychloro-2-aminodiphenyl ether (No postings in CHEMLINE).

[component of] Tricofuron
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

INDICES

Author, page 149
Animal-Tissue, page 173
Tissue, page 193
Keyword, page 199
Geography, page 231
Chemical (1981-1984), page 241

Acurero, G. 3393-3396, 4259-4262

Adams, D.S. 5086

Adams, W.J. 5065-5072, 5452-5459

Adkins, R.S. 5131

Akitomi, H. 3222, 3223, 3361, 3362, 3589, 3590, 4222, 4223, 4450, 4451, 4884, 4885, 5357, 5358

Alamir, B. 3693, 3704, 3733, 3857

Aldous, K 3879, 3883, 3898-3902

Aldous, K. 3877, 3878, 3880-3882, 3884-3890, 3893-3897

Allen, V.G. 4447

Alvinerie, M. 4185-4187

Aly, O.A. 2875, 2736, 3871, 3957, 3960, 3967, 4110, 5585

Ames, T.R. 5683, 5686, 5688, 5690

Ammerman, C.B 4494-4498

Anas, E. 4937-4941

Anderson, A.C. 2710-2715, 2721-2726

Anderson, B.C. 5121

Anderson, C. 5056

Anderson, D.W. 4054-4057

Anderson, J. 4188, 4189

Anderson, J.L. 3201, 3262-3264, 3282, 3285, 3287, 3288

Anderson-Bledsoe, K.L. 3245-3247, 3605-3607, 4388-4390, 5374-5376

Andrews, S.M. 3300-3305, 3335-3341

Aoki, M. 2769, 3108, 4824, 4837

Aoki, Y. 2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419

Appelgren, L.-E. 2842-2859

Archer, B.G. 4914

Asplund, L. 4957-4965

Astrom, G. 5163, 5164, 5741, 5742

Aulerich, R.J. 2778-2782, 2942-2944

Aust, S.D. 3737-3741, 3752-3755, 3757-3761, 3769-3773

Ayromlooi, J. 3346

Azuolas, J.K. 4190

Babcock, D.K. 5080

Babidge, P.J. 3650

Babish, J.G. 3280, 3283, 3286, 5721, 5722

Bac, L.R. 3693, 3704, 3733, 3857

Bache, C.A. 3201, 3262-3264, 3280, 3282, 3283, 3285-3291

Badawy, M.I. 2875, 2736, 3871, 3957, 3960, 3967, 4110, 5585

Bailey, G.C. 5442, 5473

Balk, L. 2842-2859

Baluja, G. 2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

Barber, R.T. 4622

Barlet, J.-P. 3351

Barr, J.F. 2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782

Barsotti, D.A. 2696-2698

Bartell, S.M. 2678, 2679

Barto, P.B. 2629

Baskett, T.S. 2881, 2886, 2896, 2905, 2910, 2955, 2982-2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3813-3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3933-3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4039-4052, 4070, 4099, 4100, 4102, 4123-4139, 5207-5210, 5212, 5213, 5215, 5216, 5218-5227, 5229-5232, 5484, 5494, 5513-5519, 5542, 5566, 5568-5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5617-5625, 5643, 5666, 5751, 5752, 5771, 5773, 5808

Bauer, T.L. 5122-5129

Beasley, V.R. 4380-4382

Beier, R.C. 3775-3788

Belisle, A.A. 3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240

Bell, J.S. 5122, 5123

Bennett, D. 4866

Bennett, R.S., Jr. 2838-2841

Benson, W.H. 3225-3227, 3593-3595, 5361-5363

Berg, J.N. 4140

Bernardini, M.P. 4736-4741

Bevill, R.F. 5680, 5681, 5684, 5692, 5693, 5695, 5696, 5711-5720

Bielakoff, J. 4251, 4252, 4255

Biever, R.C. 4859

Bird, D.M. 4152

Bird, J.E. 4160-4162

Birge, W.J. 3120, 3210, 3216, 3225-3227, 3593-3595, 5361-5363

Bjorklund, I. 4659

Black, J.A. 3120, 3210, 3216

Black, J.R. 4494-4498

Black, W.D. 4862-4864, 5697-5708

Blakley, B.R. 4274, 4281, 4288, 4293

Blanke, R.V. 5544-5546

Blaskiewics, R.W. 5728

Bleavins, M. 2778-2782

Bleavins, M.R. 2942-2944

Blumenthal, H. 4729, 5723

Blunt, B.R. 4427

Bodine, A.B. 3748

Boermans, H.J. 4862-4864

Bogan, J.A. 3392

Boila, R.J. 3522

Boling, J.A. 4730, 4801, 4802, 5084

Bolton, J. 5756, 5757, 5775

Booth, N.H. 5060

Borg, I. 4659

Borgmann, U. 4427

Borkar, M.D. 4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435

Boudou, A. 4699-4705, 4715

Bourne, D.W.A. 5824

Boush, G.M. 4683, 4684, 4707, 4710

Bowling, J.W. Haddock, J. 2678, 2679

Boyle, T.P. 4314, 4316, 4318-4322, 4324

Bradford, W.R. 2661, 3401, 4930, 4933, 5175

Bradley, B.D. 3670, 3671, 3674, 4253, 4254, 4257

Bragg, D.B. 3449, 3450

Bratton, G.R. 4275, 4278-4280, 4282, 4284, 4285, 4287, 4289, 4292, 4295, 4297-4299, 4301-4307, 4309

Braun, H.E. 2770-2774, 2793-2797, 2997-3010, 3067-3072, 3274-3278, 3422-3425, 3435-3439, 3637-3641, 3705-3708, 3710, 3820-3833, 3850-3855, 3945, 4060, 4093-4098, 4406-4410, 4632, 4633, 4635-4645, 4676-4680, 5116-5120, 5520-5523, 5628-5640, 5657-5661, 5778-5782, 5790-5794

Breslin, W.J. 2942-2944

Bretslaff, K.N. 5680, 5681, 5684, 5692, 5693, 5695, 5696

Brooke, L.T. 5056

Brown, R.D. 3358

Brown, T.H. 3650

Browning, D. 5024

Brunn, H. 5460-5473

Bruno, M. 2678, 2679

Buelow, C.R. 2895

Buhler, D.R. 3148, 3149, 3153, 3154, 3539, 3540, 3543, 3544, 4211, 4212, 4214, 4215, 4501, 4502, 4504, 4505, 4570, 4571, 4575, 4576, 5289, 5290, 5293, 5294

Bulgin, M.S. 5121

Bunck, C.M. 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Bunzl, K. 3403, 3404, 3406, 3410-3414, 4412, 4414, 4416, 4433, 4434, 4735, 4928, 4929, 4931, 4932, 4934-4936, 4942, 4943, 5038-5040

Burgess, M.N. 3201, 3262-3264

Burrows, D.G. 2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825

Burrows, G.E. 2629

Burton, D.T. 4829, 4825-4828, 4830-4836, 4916-4927

Buser, H.R. 4945-4956

Bush, P.B. 5060

Byrd, M.A. 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Cadwell, L.L. 3399, 3400, 3405, 5167

Caldwell, R.S. 3148, 3149, 3153, 3154, 3539, 3540, 3543, 3544, 4211, 4212, 4214, 4215, 4501, 4502, 4504, 4505, 4570, 4571, 4575, 4576, 5289, 5290, 5293, 5294

Call, D.J. 5056

Camacho, M.V. 3393-3396, 4259-4262

Camp, B.J. 3775-3788

Candela, E. 3393-3396, 4259-4262

Cantor, A.H. 5084, 5093

Caple, I.W. 4190

Cappellini, L. 2916, 2937, 3026, 3030, 3035, 3042

Cara, J. 2683, 2699, 2736, 3110, 3397, 3398, 3451, 3488, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273

Carlos, G. 3521, 3643

Carpenter, L.A. 2631, 2632

Castelli, M.G. 2916, 2937, 3026, 3030, 3035, 3042

Cederblad, A. 3354, 5281

Chasko, G.G. 4330, 4333, 4340, 4345

Chaves, E.R. 2662, 3669, 3672, 4250, 5435, 5436

Cheeke, P.R. 3651

Chen, C. 3737-3741, 3752-3755, 3757-3761, 3769-3773

Chesney, J. 4862-4864

Chew, B.P. 5024

Chovelon, A. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Christopher, R.J. 3775-3788

Clark, D.R. 3973-3975, 5589, 5590

Clark, D.R., Jr. 5587, 5588, 5748, 5755

Clawson, R.L. 5587, 5588, 5748, 5755

Coats, J.R. 2838-2841

Cohen, D.M. 4622

Colard, J. 3407-3409, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3506-3509, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493

Coleman, T.H. 3737-3741, 3752-3755, 3757-3761, 3769-3773

Coler, R.A. 3128, 3224, 3318, 3517, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431

Combie, J.D. 4733, 4734

Condon, R.J. 3670, 3671, 3674, 4253, 4254, 4257

Cooke, J.A. 3300-3305, 3335-3341

Cooper, J.J. 4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4577-4580, 4615-4617, 4649, 4654-4657, 4694

Cooper, K.R. 4825-4836, 4916-4927

Craigmill, A.L. 2629

Crespo, S. 3548, 4506, 5297

Cronrath, J.D. 5024

Crossland, N.O. 4866

Culliney, T. 3201, 3262-3264

Cumbie, P.M. 5122, 5123

Curtis, E.J.C. 2661, 3401, 4930, 4933, 5175

Custer, T.W. 4367, 4369-4372, 4374

Cutlip, R.C. 3742-3747, 3749-3751, 3762-3768

Daisaku, I. 2769, 3108, 4824, 4837

Daly, J.J. 3891, 3892

Davidson, L. 3354, 5281

Davis, L.E. 4140, 5680, 5681, 5684, 5692, 5693, 5695, 5696

de Kock, A.C. 2908, 2909, 2954, 2975, 2977, 3037, 3038, 3091, 3942, 3991, 3992, 4025, 4026, 4067, 4074, 4075, 4109, 5598, 5611, 5614, 5615, 5649

De Ruiter, E. 3066

de Vernejoul, M.C. 4251, 4252, 4255

Deets, L.E. 3374, 4463, 5036

Delfino, J.J. 2895

Denny, P. 4354-4356, 4419, 4420

DePierre, J.W. 2842-2859

Detroy, B.F. 2716, 3466, 3580, 4823, 5205

Devlin, T.J. 3522

Dewey, D.W. 3650

Di Giulio, R.T. 3187-3189, 3191, 3192, 3556-3558, 3560, 3561, 4339, 4342, 4344, 5326, 5328, 5329, 5331, 5332

Dial, G.D. 3683, 3916, 5055, 5061, 5822

Dickhoff, W.W. 2720

Dickson, J. 5756, 5757, 5775

Dillon, K. 3877, 3878, 3880-3882, 3884-3890, 3893-3897

Dimmick, R.W. 4602-4604

DiMuccio, A. 4736-4741

Dixon, J.M. 5080

Dodd, N.J. 3402, 5174

Dogra, R.K.S. 3514, 4199, 4267, 4550, 5263

Doi, R. 4536, 4573, 4583, 4584, 4599, 4600, 4608, 4612, 4614, 4619, 4623-4625, 4630, 4658, 4669, 4682, 4697, 4698

Donnelly, R. 3877-3890, 3893-3902

Donoghue, S. 5257

Dorn, C.R. 3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5276, 5282

Dougan, J.L. 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794

Doyle, J.J. 3523, 3524, 3527, 3530, 3533, 4202, 4204-4206, 4208, 4283, 4286, 4291, 4294, 4308, 4483, 4484, 4486, 4488, 4492, 5272, 5274, 5277, 5280, 5284

Drysdale, R.A. 3522

Duffy, R.J. 5756, 5757, 5775

Duke, E.J. 3236-3239

Duke, G.E. 4160-4162

Dunham, P.B. 3280, 3283, 3286

Dusan, R.E. 2919, 3048, 3049, 3103-3106, 3997-4000, 4081-4084, 4119-4122, 5559, 5602-5606, 5652-5655, 5674-5678, 5762-5766, 5786-5789, 5801-5805, 5820, 5821

Dyrland, R.A. 2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105

Eamens, G.J. 3581-3584, 4363, 4364, 5351-5353

Eaton, D.L. 2631, 2632, 3155, 3156, 3545-3547, 4315, 4317, 4323, 4325, 4581, 4582

Eberhardt, L.E. 3399, 3400, 3405, 5167

Edds, G.T. 3756, 3774

Edelman, T. 3202, 3570, 4352, 5343

Edqvist, L.-E. 3648, 5406

Edwards, W.R. 2919, 3048, 3049, 3103-3106, 3997-4000, 4081-4084, 4119-4122, 5559, 5602-5606, 5652-5655, 5674-5678, 5762-5766, 5786-5789, 5801-5805, 5820, 5821

Eisenberg, M. 2704-2706, 2717, 2901, 2902, 2912, 3036, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311-4313, 4393, 4568, 4569, 4574, 4652, 5287, 5288, 5292, 5378, 5595, 5596, 5601, 5648

Elder, J.F. 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823

Elder, R.G. 5245-5247

Ellis, T.M. 3646, 5404, 5407, 5409, 5410

English, P.B. 5824

Errick, J.K. 3346

Escalona, R.L. 2862-2865, 2869-2874, 3797, 3802, 3807, 3808, 3835, 3839, 3840, 3864-3866, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5600, 5610, 5641, 5644, 5645, 5662-5664, 5759, 5761, 5770, 5784, 5785, 5795-5797

Escoula, L. 4185-4187

Eskildsen, J. 4426

Evans, D. 3903-3907

Everard, M. 4354-4356, 4419, 4420

Evenson, R.J. 2685-2688

Ewan, R.C. 5131

Fair, P.A. 3111-3119, 3250, 4742-4751

Falandysz, J. 3182-3186, 3494-3498, 3551-3555, 4216-4220, 4334-4338, 4507-4511, 4762-4766, 5201-5204, 5241-5244, 5321-5325

Fanelli, R. 2916, 2937, 3026, 3030, 3035, 3042

Fenimore, R.L. 5086

Ferguson, H.W. 3388-3390, 4475, 4476, 5133, 5134

Filippich, L. 5824

Filos, M. 4736-4741

Foote, R.H. 3282, 3285, 3287, 3288

Forsyth, B.A. 4184

Forsyth, D.J. 3858-3863, 3873-3875

Francis, P.C. 3120, 3210, 3216

Frank, A. 3648, 5406

Frank, R. 2770-2774, 2793-2797, 2997-3010, 3067-3072, 3274-3278, 3422-3425, 3435-3439, 3637-3641, 3705-3708, 3710, 3820-3833, 3850-3855, 3945, 4060, 4093-4098, 4406-4410, 4632, 4633, 4635-4645, 4676-4680, 5116-5120, 5520-5523, 5628-5640, 5657-5661, 5778-5782, 5790-5794

Frank, R.J. 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794

Franklin, A. 5163, 5164, 5741, 5742

Franson, J.C. 4367, 4369, 4365, 4366, 4370-4372, 4374

Fraser, J.D. 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Freestone, P. 3127, 4270

Freitag, D. 2884, 2899, 2903, 2913, 2956, 2971, 2972, 2976, 2991, 2995, 3027-3029, 3031, 3033, 3076, 3077, 3093

Friedman, A.R. 5163

Frobish, L.T. 3670, 3671, 3674, 4353, 4354, 4357

Frye, T.M. 5121

Fujiyama, T. 4585-4597, 4716-4727, 5094-5106

Fyfe, R.W. 2940, 2941, 4019, 4020

Fytianos, K. 3217, 3232, 3233, 4360, 4383, 4384, 4621, 4650, 4651

Galtier, P. 4185-4187

Garton, D.W. 2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800

Gatlin, D.M. 5079

Gauglitz, E.J., Jr. 2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4647, 4666, 4667, 4681, 4688, 4714, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444

Gay, N. 5084

Gee, A.S. 2659

Geen, G.H. 4844

Geleta, J.N. 5051-5053

Gentry, R.D. 5697-5708

George, L. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Gerber, G.B. 3407-3409, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3506-3509, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493

Gerould, S. 2678, 2679

Geyer, H. 2884, 2899, 2903, 2913, 2956, 2971, 2972, 2976, 2991, 2995, 3027-3029, 3031, 3033, 3076, 3077, 3093

Ghani, N. 4646, 4663, 4673, 4675, 4706

Giam, C.S. 2752, 3416, 3684, 3798, 4822, 4913, 4915

Giesy, J.P. 2678, 2679

Giulio, R.T. 3125, 3126, 3129, 3130, 3180, 3181, 3190, 3193-3198, 3211, 3212, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3515, 3516, 3518, 3519, 3549, 3550, 3559, 3562-3567, 3577, 3578, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 4268, 4269, 4272, 4273, 4331, 4332, 4341, 4343, 4346-4349, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 5264-5266, 5268-5270, 5318-5320, 5327, 5330, 5333-5340, 5347-5349, 5368, 5369, 5383-5385, 5394-5401, 5438, 5445-5447

Goehring, T.B. 5130, 5132

Goerke, H. 5727

Goetsch, D.D. 3910, 4163

Golenser, C.C. 4251, 4252, 4255

Gonsales, M.J. 2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

Goodfellow, W.L. 4829-4836, 4920-4927

Goodfellow, W.L., Jr. 4825-4828, 4916-4919

Goodman, L.R. 2836, 2837, 3789

Gossett, R.W. 2914, 3803

Gothberg, A. 4660, 4670

Goto, M. 2769, 3108, 4824, 4837

Goyal, K.C. 5254, 5256, 5255

Graber, G. 3670, 3671, 3674, 4253, 4254, 4257

Graham, F. 4634

Gramlich, F.J. 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Grandjean, P. 4426

Gray, D. 3650

Gray, J.I. 3737-3741, 3752-3755, 3757-3761, 3769-3773

Greef, J.v.d. 2707, 2709, 2727-2729

Green, N. 3402, 5174

Gregory, J.F. III 3756, 3774

Gregory, S.V. 2720

Greig, R.A. 2947, 3209, 3576, 5136

Guerrini, V.H. 5824

Gulayets, C. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2901, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Gustaffsson, B.K. 5680, 5692, 5695

Gustafsson, B.K. 5681, 5684, 5693, 5696

Gutenmann, W.H. 3201, 3262-3264, 3282, 3285, 3287, 3288

Gyang, E.O. 5085

Hagan, R.C. 3915, 5054

Haggard, D.W. 4188, 4189

Halford, D.K. 4193

Hall, A.S. 2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4647, 4666, 4667, 4681, 4688, 4714, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5141, 5142, 5146, 5147, 5150, 5152, 5158, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444

Hall, G. 5709, 5710

Hall, R.J. 3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240

Hallford, D.M. 3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408

Hansen, D.J. 2836, 2837, 3789

Hansen, L.G. 3897

Hanson, E.E. 3399, 3400, 3405, 5167

Hanson, H.M. 3127, 4270

Harada, M. 4536, 4573, 4583, 4584, 4599, 4600, 4606, 4612, 4614, 4619, 4622-4625, 4630, 4658, 4669, 4682, 4697, 4698

Harlan, C.W. 5122, 5123

Harms, W.E. 2730-2734

Harrison, F.L. 3536

Hartin, K.E. 3649, 3654, 4732

Haseltine, S.D. 2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

Haux, C. 2718, 2719, 3254, 3255, 3612, 4395, 4653, 5381

Hayton, W.L. 4914

Heaney, D.P. 3649, 3654, 4732

Heath, E.M. 5474-5481

Hegdal, P.L. 5728

Heindze, A.M. 5135

Heins, G.H. 2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

Helwig, D.D. 2694, 2695, 3332

Hembry, F.G. 4447

Hendricks, L. 5060

Hendrix, K.S. 2685-2688

Henry, P.R. 4494-4498

Hensler, G.L 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812

Hensler, G.L. 2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

Hernandez, L.M. 2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

Hicks, B.D. 3388-3390, 4475, 4476, 5133, 5134

Hidaka, H. 3073, 3440, 3806, 3856, 5747, 5754, 5810, 5814

Hidiroglou, M. 3649, 3654, 4732

Higdon, P.K. 2836, 2837, 3789

Hilbert, B. 5756, 5757, 5775

Hilde B.L. 3352, 4881

Hilker, D. 3877-3890, 3893-3902

Hill, G.M. 3387, 3673, 4256, 4474, 4907, 5437

Hillers, J.K. 5024

Hilton, J.W. 3388-3390, 4475, 4476, 5133, 5134

Hird, D. 3353

Hodgins, D.A. 4661, 4662, 5111, 5112

Hodson, P.V. 4427

Hoehn, T.R. 4330, 4333, 4340, 4345

Hogan, J.W. 4945-4956

Hogue, D.E. 3280, 3283, 3286, 3289, 3282, 3285, 3287, 3288, 3290, 3291

Holmberg, O. 5163, 5164, 5741, 5742

Holmbom, B. 4937-4941

Holmes, S.B. 2633, 4867-4876

Honda, K. 2708, 3159-3178, 3203, 3240, 3316, 3317, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5298-5317, 5344, 5367, 5423, 5424

Hoodless, R.A. 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834

Hook, J.B. 2778-2782

Hora, M.E. 2694, 2695, 3332

Horn af Rantzien, M. 5163, 5164, 5741, 5742

Horn, E. 3877, 3878, 3880-3882, 3884-3890, 3893-3897

Hotchkiss, D.K. 4201

Houle, C.R. 2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4647, 4666, 4667, 4681, 4688, 4714, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444

Hove, K. 3352, 4881

Howe, J.R. 4192, 4194

Howell-Heller, P. 4330, 4333, 4340, 4345

Hoyano, Y. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Huber, T.L. 3910, 4163

Hudgens, R.E. 3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408

Hughes, D.L. 2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105

Hunt, A.E. 4192, 4194

Hussein, K.S.M. 3648, 5406

Ikeda, G.J. 4729, 5723

Imlay, M.J. 3665

Impens, R. 3134, 3137, 3138, 3141-3143, 3213-3215, 3322-3324

Ingebrigtsen, K. 2785-2788, 3042-3046, 3430-3432, 3701-3703, 3729-3732, 4077-4080, 5558, 5651

Ingraham, R.H. 5080

Inoue, T. 3073, 3440, 3856, 5747, 5754, 5810, 5814

Istasse, L. 5057

Itano, K. 4585-4597, 4716-4727, 5094-5106

Ivie, G.W. 3775-3788, 5176-5185, 5730, 5735-5740

Jackson, W.E., III 4729, 5723

Jans, T. 3202, 3570, 4352, 5343

Jansson, B. 4957-4965

Jarman, W.M. 2940, 2941, 4019, 4020

Jelus-Tyror, B. 3877, 3878, 3880-3882, 3884-3890, 3893-3897

Jensen, A.A. 5186-5198

Johansson, K. 4659

Johnson, D.D. 5130, 5132

Johnson, H.E. 5065-5072, 5452-5459

Johnson, J.L. 4945-4956

Johnson, K.L. 3094-3097, 4112-4115

Johnson, M. 3629, 3630, 4770, 4775

Johnson, M.S. 3300-3305, 3335-3341

Johnson, T.H. 5093

Johnson, W.W. 3665

Jones, B.-E.V. 3648, 5406

Jones, J.R. 4314, 4316, 4318-4322, 4324

Jorgensen, K.F. 5186-5193

Judson, G.J. 3644, 3650, 3652, 5082, 5083, 5087

Kahn, B. 4909-4912

Kalinowski, J. 2662, 3669, 3672, 4250, 5435, 5436

Kalnins, M.A. 2716, 3466, 3580, 4823, 5205

Kan, C.A. 2897

Kaneko, S. 2769, 3108, 4824, 4837

Kappel, L.C. 5080

Karacic, V. 4277

Karara, A.H. 4914

Kashimoto, T. 2663-2677, 2749, 2760, 2762, 2767, 2775, 2776, 2783, 2789, 2791, 2792, 2880, 2957, 2978, 3011, 3012, 3025, 3032, 3050, 3052, 3057, 3080, 3790, 3792, 3810-3812, 3834, 3836, 3841, 3847-3849, 3870, 4165, 4167-4172, 4174-4176, 4178

Kasten, S.C. 4380-4382

Kawai, S. 4585-4597, 4716-4727, 5094-5106

Kawamura, R. 3222, 3223, 3361, 3362, 3589, 3590, 4222, 4223, 4450, 4451, 4884, 4885, 5357, 5358

Kawano, M. 3073, 3440, 3856, 5747, 5754, 5810, 5814

Kendall, R.J. 4328

Kent, R.J. 5056

Ketterer, P.J. 2730-2734

Khan, A.Q. 5499-5511

Khanna, S. 3514, 4199, 4267, 4550, 5263

Kiff, L.F. 2940, 2941, 4019, 4020

Kim, J.S. 2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 5485-5492, 5498, 5524-5532, 5534-5541

Kim, K.S. 2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 5485-5492, 5498, 5524-5532, 5534-5541

Kim, S.M. 5709, 5710

Kincaid, R.L. 5024

King, M.T. 4729, 5723

Kingsbury, P.D. 2633, 4867-4876

Kirchmann, R. 3134, 3137, 3138, 3141-3143, 3213-3215, 3322-3324, 3407-3409, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3506-3509, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493

Kisseberth, W.C. 4380-4382

Kitts, W.D. 3449, 3450

Kitsman, J.V. 5060

Kiyonaga, M. 3712, 3721

Kjos-Hanssen, B. 2747, 2748, 2756-2759, 2763-2766, 2877, 2878, 2939, 2949, 2950, 2970, 2973. 2974, 3970, 3971, 4017, 4018, 4023, 4024, 4033-4035, 4537, 4610, 4611, 4613, 4618

Klaas, E.E. 2838-2841, 4071, 4072, 5646, 5647

Klaverkamp, J.F. 4661, 4662, 5111, 5112

Knap, A.H. 4810-4813

Knezovich, J.P. 3536

Knowlton, M.F. 4314, 4316, 4318-4322, 4324

Knuth, M.L. 5056

Koeman, J.H. 2897

Kolbe, E.J. 2838-2841, 4859

Koller, L.D. 5081, 5091

Komatsu, Y. 2769, 3108, 4824, 4837

Konings, J. 3407-3409, 3506-3509

Korfmacher, W.A. 3891, 3892

Korits, G.D. 5680, 5681, 5684, 5692, 5693, 5695, 5696

Korte, F. 2884, 2899, 2903, 2913, 2956, 2971, 2972, 2976, 2991, 2995, 3027-3029, 3031, 3033, 3076, 3077, 3093

Krabill, L.F. 5162

Kracke, W. 3403, 3404, 3406, 3410-3414, 4412, 4414, 4416, 4432, 4434, 4735, 4926, 4929, 4931, 4932, 4934-4936, 4942, 4943, 5038-5040

Krahn, M.M. 2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825

Kramer, H.L. 2700-2702, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283

Krans, J.M.S. 3289-3291

Kratzer, F. 5709, 5710

Krause, G.F. 4140

Krishnamurti, C.R. 5135

Kronfeld, D.S. 5257

Krusynski, G. 4937-4941

Krynitsky, A.J. 3973-3975

Ku, P.K. 3387, 3673, 4256, 4474, 4907, 5437

Kummerow, F.A. 3915, 5054

Kyle, J.H. 4646, 4663, 4673, 4675, 4706

LaGory, K. 2678, 2679

Laing, E.A. 3581-3584, 4363, 4364, 5351-5353

Lake, P.S. 3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3572-3575, 3611, 3613, 3614, 3627, 3628, 3676-3679, 5345, 5346, 5380, 5382, 5391-5393, 5439-5441

Lal, H. 3384, 3385

Lamont, T.G. 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Lamphere, D.N. 3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5278, 5282

Landrum, P.F. 2678, 2679

Langman, M.W. 3644, 3653

Larson, A.A. 4160-4162

Larson, V.L. 5683, 5686, 5688, 5690

Larsson, A. 2718, 2719, 3254, 3255, 3612, 4395, 4653, 5381

Larsson, P. 2898

LaRue, D.C. 2681

Laughlin, R.B. 3903-3907

Lawrence, G.A. 5233

Layrisse, M. 3393-3396, 4259-4262

Leavitt, R.A. 5450, 5451

LeBlanc, R. 3128, 3224, 3318, 3517, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431

Leszczynski, D.E. 3915, 5054

Leversee, G.J. 2678, 2679

Levin, S. 4729, 5723

Lew, T.S. 2940, 2941, 4019, 4020

Libal, G.W. 5130, 5132

Lillie, L.E. 3522

Lindberg, P. 4601, 4620, 4665, 4668, 4671, 4674, 4695, 4696, 4713

Lindsay, D.G. 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834

Lindsay, R.C. 4602-4604

Lintas, C. 4736-4741

Lisk, D.J. 3201, 3262-3264, 3280, 3282, 3283, 3285-3291, 5721, 5722

Lithner, G. 2718, 2719, 3254, 3255, 3612, 4395, 4653, 5381

Litmanen, R. 3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872

Long, G.G. 3448, 5826

Lonnerdal, B. 3354, 5281

Lowe-Jinde, L. 2746, 4728

Lowrey, R.S. 4448

Lumsden, H. 2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782

Lundholm, C.E. 3355, 3356, 3359, 3360, 3986, 4001

Luten, J.B. 2707, 2709, 2727-2729

Lutz, A. 4661, 4662, 5111, 5112

Lynch, T.R. 5065-5072, 5452-5459

Lyon, R.L. 3742-3747, 3749-3751, 3762-3768

Ma, W. 3202, 3570, 4352, 5343

Maas, J. 5121

Maas, J.P. 4140

Macadam, J.F. 3581-3584, 4363, 4364, 5351-5353

Machon, A. 4966-5019

Machon,A. 4141-4146

Mack, J. 3415, 3709, 3796, 5550, 5592, 5758, 5816

Mack, P.D. 4838-4843, 4845-4858

MacMonegle, C.W. 3415, 3709, 3796, 5550, 5592, 5758, 5816

Magee, B.H. 3280, 3283, 3286, 3289-3291

Maita, K. 2778-2782

Majak, W. 4800, 5059, 5058, 5448, 5449

Malins, D.C. 2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825

Maly, M.S. 3333, 3334

Mamarbachi, G. 2633, 4867-4876

Marcelle, C. 2866-2868, 3719, 3720, 3727

Marinez-Torres, C. 3393-3396, 4259-4262

Markham, O.D. 4193

Marriner, S.E. 3392

Martelli, G.P. 2916, 2937, 3026, 3030, 3035, 3042

Martin, T.W. 3665

Massari, C. 4152

Masters, H.G. 3646, 5404, 5407, 5409, 5410

Masui, H. 2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419

Mathieu, P. 2633, 4867-4876

Matsubara, F. 2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419

Matsumoto, M. 5234-5239

Matthews, A.D. 4545, 4548, 4549, 4553, 4627, 4628, 4664, 4672, 4708, 4709, 4711, 4712

Mattraw, H.C. 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823

Mayberry, C. 3646, 5404, 5407, 5409, 5410

Mayer, F.L. 2720

Mayse, M.A. 2838-2841

Massarri, G. 3393-3396, 4259-4262

McClary, D.G. 5743

McDaniel, R.C. 3891, 3892

McEwen, L.C. 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812

McFarlane, J.D. 5082, 5083, 5087

McGaw, S. 4427

McGill, C. 5756, 5757, 5775

McGuinness, E. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

McKeown, B.A. 4844

McKim, J.M. 5474-5481

McKim, J.M., Jr. 3094-3097, 4112-4115

McLane, M.A.R. 4071, 4072, 5646, 5647

McMillan, W.E. 3665

McOrist, S. 3500, 3587, 3588, 4513, 5356

Medeiros, C. 3128, 3224, 3318, 3517, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431

Meier, P.G. 2684

Meijer, J. 2842-2852

Mendenhall, V.M. 4071, 4072, 5646, 5647

Menzer, R.E. 2744, 2745

Mercer, H.D. 5051-5053

Meyer, A.W. 3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5278, 5282

Meyer, C. 3877-3890, 3893-3902

Meyer, J.S. 5245-5247

Michel, T.C. 4729, 5723

Michot, C.E. 2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800

Middlesworth, L.V. 4191

Miles, R.D. 4494-4498

Miller, E. 4729, 5723

Miller, E.R. 3315, 3387, 3485, 3666, 3673, 4248, 4256, 4474, 4907, 5421, 5437

Miller, K,W. 3280, 3283, 3286

Miller, K.W. 3289-3291, 4160-4162

Minns, C.K. 4427

Miravet, L. 4251, 4252, 4255

Misra, U.K. 5254-5256

Misra, V. 3384, 3385

Mitchell, C.A. 4859

Mitchell, G.E., Jr. 3374, 4463, 5036

Mitchum, R.K. 3891, 3892

Mitema, E.S. 2628

Miyasaki, N. 4585-4597, 4716-4727, 5094-5106

Miyasaki, T. 5234-5239

Modrowski, D. 4251, 4252, 4255

Monk, J.G. 2940, 2941, 4019, 4020

Moore, J. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Moore, J.C. 2836, 2837, 3789

Moore, J.F. 3179, 4003, 4329, 4365, 4366, 4598

Morgan, E.B. 5080

Moriarity, C. 5056

Moriarty, F. 3127, 4270

Morieux, C. 4251, 4252, 4255

Moseley, W.M. 5162

Mount, M.E. 2630, 4838-4843, 4845-4858, 4860, 4861, 4865

Mourer, C. 5709, 5710

Muir, A.D. 4800, 5058, 5059, 5448, 5449

Mulhern, B.M. 3179, 4003, 4329, 4598

Muntifering, R.B. 3374, 4463, 5036

Murray, H.E. 2752, 3416, 3684, 3798, 4822, 4913, 4915

Murti, C.R.K. 3384, 3385

Musewe, V.O. 2628

Mushinsky, H.R. 2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800

Myers, M.S. 2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825

Nagel, R. 4816-4818

Nakamura, T. 4805-4807, 5020

Naples, P. 2947, 3209, 3576, 5136

Nash, D.M. 5093

Nasu, T. 2708, 3203, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5344

Nauwelaers, J.P. 3475-3479, 3622-3626, 4783-4787

Neidert, E. 4820, 4821, 5729, 5731-5734

Nelson, H.A. 2689-2693

Ney, J.J. 3121, 3157, 3158, 3319-3321, 4265, 4326, 4327, 4422-4425, 4754, 4760, 4761, 4794-4797, 5258, 5295, 5296, 5432-5434

Ng, L.L. 5711-5720

Nichols, J.W. 2720

Nicholson, J.K. 4689-4693, 5425-5430

Niethammer, K.R. 2881, 2886, 2896, 2905, 2910, 2955, 2982-2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3813-3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3933-3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4039-4052, 4070, 4099, 4100, 4102, 4123-4139, 5207-5210, 5212, 5213, 5215, 5216, 5218-5227, 5229-5232, 5484, 5494, 5513-5519, 5542, 5566, 5568-5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5617-5625, 5643, 5666, 5751, 5752, 5771, 5773, 5808

Niimi, A.J. 2746, 2812, 2826, 3109, 4728, 5206, 5482, 5547, 5548, 5724-5726

Niiml, A.J. 2806, 2814, 2818, 2820, 2823, 2828, 2831, 2833, 2835, 3917, 5483

Nishikawa, M. 2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419

Nolan, C.V. 3236-3239

Norheim, G. 2747, 2748, 2756-2759, 2763-2766, 2877, 2878, 2939, 2949, 2950, 2970, 2973, 2974, 3970, 3971, 4017, 4018, 4023, 4024, 4033-4035, 4537, 4610, 4611, 4613, 4618

Norris, R.H. 3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3572-3575, 3611, 3613, 3614, 3627, 3628, 3676-3679, 5345, 5346, 5380, 5382, 5391-5393, 5439-5441

North, M.J. 4141-4146, 4966-5019

Nugent, T.E. 4733, 4734

Nyboer, R.W. 4380-4382

O'Dell, G.D. 3748

O'Keefe, P. 3877-3890, 3893-3902

O'Keeffe, M. 3911-3914

Oehler, D.D. 5176-5185, 5730, 5735-5740

Ohno, H. 4536, 4573, 4583, 4584, 4599, 4600, 4608, 4612, 4614, 4619, 4623-4625, 4630, 4658, 4669, 4682, 4697, 4698

Oikari, A. 4937-4941

Olesen, B. 4819

Oliver, B.G. 2806, 2812, 2814, 2818, 2820, 2823, 2826, 2828, 2831, 2833, 2835, 3109, 3917, 5206, 5482, 5483, 5547, 5548, 5724-5726

Oloffs, P.C. 4844

Olsen, R.F. 5162

Olson, O.E. 5130, 5132

Olson, W.G. 4188, 4189, 5085

Olsson, M. 4957-4965

Opdycke, J.C. 2744, 2745

Orskov, E.R. 5057

Osborn, D. 4689-4693, 5425-5430

Ose, Y. 4805-4807

Osheim, D.L. 2689-2693

Osweiler, G.D. 4819

Ott, R.S. 5680, 5681, 5684, 5692, 5693, 5695, 5696

Palmer, I.S. 5130, 5132

Palmork, K.H. 4810-4813

Parkhurst, B.R. 5245-5247

Parrish, D.B. 5062, 5063

Parrish, J.J. 3282, 3285, 3287, 3288

Pass, M.A. 4800, 5058, 5059, 5448, 5449

Pastel, M.J. 2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 5485-5492, 5498, 5524-5532, 5534-5541

Paterson, J.A. 4140

Pattee, O.H. 4365-4367, 4369, 4368, 4370-4372, 4374, 4373, 4375

Patterson, J.R. 4820, 4821, 5729, 5731-5734

Patton, W.H. 5721, 5722

Paul, A.C. 4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435

Paul, B.S. 5679

Peakall, D.B. 2940, 2941, 4019, 4020

Pearson, A.M. 3737-3741, 3752-3755, 3757-3761, 3769-3773

Peattie, M.E. 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834

Peet, R.L. 5756, 5757, 5775

Pennak, R.W. 5245-5247

Perdomo, J. 3393-3396, 4259-4262

Pereira, J. 2947, 3209, 3576, 5136

Perkins, E.G. 5711-5720

Perry, T.W. 2685-2688

Pestka, J.J. 3737-3741, 3752-3755, 3757-3761, 3769-3773

Peterle, T.J. 3858-3863, 3873-3875

Peterson, L.A. 2689-2693

Peterson, R.C. 2685-2688

Petty, H.B. 3795, 5549, 5815

Petty, J.D. 4945-4956

Pettyl, H.B. 3415, 3709, 3796, 5550, 5592, 5758, 5816

Pier, A.C. 3742-3747, 3749-3751, 3762-3768

Pillai, K.C. 4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435

Pimentel, D. 3201, 3262-3264

Plummer, M.V. 3891, 3892

Podowski, A.A. 5499-5511

Pointillart, A. 4251, 4252, 4255

Polin, D. 5450, 5451

Pondick, J.S. 3315, 3485, 3666, 4248, 5421

Popplewell, D.S. 2661, 3401, 4930, 4933, 5175

Prelusky, D.B. 5233

Price, N.C. 4141-4146, 4966-5019

Prouty, R.M. 5589, 5590

Prpic-Majic, D. 4277

Puffer, H.W. 2914, 3803

Puls, R. 5086

Pyysalo, H. 3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872

Ramamoorthy, S. 2761, 2761, 2784, 2784, 2790, 2790, 2803, 2803, 2804, 2804, 2807, 2807, 2808, 2808, 2809, 2809, 2961, 2961, 3041, 3041, 3051, 3051, 3082, 3082, 3083, 3083, 3092, 3092, 3099, 3099, 3100, 3100, 3101, 3101, 3421, 3421, 3429, 3429, 3434, 3434, 3441, 3441, 3442, 3442, 3443, 3443, 3445, 3445, 3446, 3446, 3447, 3447, 3687, 3687, 3691, 3691, 3692, 3692, 3694, 3694, 3695, 3695, 3696, 3696, 3697, 3697, 3698, 3698, 3699, 3699, 3931, 3931, 3949, 3949, 3950, 3950, 3955, 3955, 3956, 3956, 3958, 3958, 3959, 3959, 3968, 3968, 3969, 3969, 4027, 4027, 4076, 4076, 4085, 4085, 4106, 4106, 4107, 4107, 4111, 4111, 4116, 4116, 4117, 4117, 4118, 4118, 5613, 5613, 5650, 5650, 5656, 5656, 5669, 5669, 5670, 5670, 5671, 5671, 5672, 5672, 5673, 5673

Randall, R.M. 2908, 2909, 2954, 2975, 2977, 3037, 3038, 3091, 3843, 3991, 3992, 4025, 4036, 4037, 4074, 4075, 4109, 5598, 5611, 5614, 5615, 5649

Rappe, C. 4945-4956

Ray, A.C. 2681

Ray, L.E. 2752, 3416, 3684, 3798, 4822, 4913, 4915

Ray, S. 3150, 3151, 3207, 3221, 3229, 3231, 3234, 3248, 3258, 3259, 3267, 3331, 3342, 3345

Raynaud, J.P. 5682, 5685, 5687, 5689, 5691, 5694

Reagor, J.C. 2681

Reddy, C.S. 3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5278, 5282

Rediske, R.R. 2684

Reece, W.O. 4201

Reichel, W.L. 2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

Reynolds, J.D. 3795, 4380-4382, 5549, 5815

Reynolds, J.P. 3353

Reynolds, L.M. 2940, 2941, 4019, 4020

Ribeyre, F. 4699-4705, 4715

Rice, D.W. 3536

Richard, J.L. 3742-3747, 3749-3751, 3762-3768

Richardson, D.W. 5257

Rico, M.C. 2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

Ridlen, R.L. 3775-3788

Riekwel-Booy, G. 2707, 2709, 2727-2729

Ringer, R.K. 2778-2782, 2942-2944

Risco, C.A. 3353

Risebrough, R.W. 2940, 2941, 4019, 4020

Robb, R. 4862-4864

Robertson, I.D. 2730-2734

Robinson, D.L. 4447

Robinson, F.R. 2685-2688

Rode, L.M. 4800, 5058

Ronald, K. 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794

Ronneau, C. 2683, 2699, 2736, 3110, 3397, 3398, 3451, 3488, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273

Rosales, M.T.L. 2862-2865, 2869-2874, 3797, 3802, 3807, 3808, 3835, 3839, 3840, 3864-3866, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5600, 5610, 5641, 5644, 5645, 5662-5664, 5759, 5761, 5770, 5784, 5785, 5795-5797

Rosenblatt, D.H. 4825-4836, 4916-4927

Ross, P.F. 2689-2693

Ross, R. 3351

Rottinghaus, G.E. 4819

Rowe, L. 4275, 4279, 4282, 4285, 4289, 4295, 4299, 4302, 4304, 4306, 4307

Rowe, L.D. 4278, 4280, 4284, 4287, 4292, 4297, 4298, 4301, 4303, 4305, 4309

Rowland, K.R. 3891, 3892

Rozman, K. 3984, 3985, 5495-5497

Rozman, T. 3984, 3985, 5495-5497

Rudolph, S.G. 4054-4057

Ruhr, L.P. 4276

Rush, G.F. 2778-2782

Sabourin, T.D. 2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800

Sadiq, M. 4778-4780, 4792, 4793, 4798, 4799, 5248-5253

Saltes, J.G. 5442, 5443

Sanchez, D.A. 5245-5247

Sandstrom, B. 3354, 5281

Sanpera, C. 3548, 4506, 5297

Sapienza, P.P. 4729, 5723

Saschenbrecker, P.W. 4820, 4821, 5729, 5731-5734

Sato, E. 4805-4807

Saveur, B. 4882

Saxena, A.K. 3514, 4199, 4267, 4550, 5263

Sayre, M.W. 2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099, 4100, 4102, 4123-4128, 4131, 4135-4139, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5484, 5494, 5515, 5517, 5519, 5542, 5566, 5568, 5571, 5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5666, 5751, 5752, 5771, 5773, 5808

Scanlon, P.F. 3125, 3126, 3129, 3130, 3180, 3181, 3187-3198, 3211, 3212, 3241, 3242, 3245-3247, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3515, 3516, 3518, 3519, 3549, 3550, 3556-3567, 3577, 3578, 3599, 3600, 3605-3607, 3615, 3616, 3631-3636, 3675, 3681, 3682, 4268, 4269, 4272, 4273, 4328, 4331, 4332, 4339, 4341-4344, 4346-4349, 4358, 4359, 4386-4390, 4396, 4397, 4400-4405, 4428, 4429, 5264-5266, 5268-5270, 5318-5320, 5326-5340, 5347-5349, 5368, 5369, 5374-5376, 5383-5385, 5394-5401, 5438, 5445-5447

Schaefer, A.L. 5135

Schurman, S. 2947, 3209, 3576, 5136

Schwartz, C.C. 5544-5546

Schwartz, L.D. 5721, 5722

Scott, P.M. 5233

Searle, C.E. 4810-4813

Seel, D.C. 4147-4151, 4153-4159

Self, H.L. 4201

Shane, L. 3879, 3883, 3898-3902

Shanker, R. 3514, 4199, 4267, 4550, 5263

Shariatpanahi, M. 2710-2715, 2721-2726

Shariff, M.A. 5135

Sharma, Y.K. 5255, 5254, 5256

Shea, P.J. 4054-4057

Sheffy, T.B. 2895

Shewfelt, W. 4862-4864

Shibuya, H. 2769, 3108, 4824, 4837

Shimoda, W. 5051-5053

Shotwell, O.L. 3742-3747, 3749-3751, 3762-3768

Shukla, L.J. 3514, 4199, 4267, 4550, 5263

Sick, L.V. 3111-3119, 3250, 4742-4751

Siemers, R.J. 2919, 3048, 3049, 3103-3106, 3997-4000, 4081-4084, 4119-4122, 5559, 5602-5606, 5652-5655, 5674-5678, 5762-5766, 5786-5789, 5801-5805, 5820, 5821

Sileo, L. 3908, 3909, 4164, 4180, 4181, 4365, 4366, 4752, 4803, 4804, 4808, 4809, 5199, 5240

Sim, J.S. 3449, 3450

Sindelar, C.R. 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Singer, P. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Sjobeck, M. 3254

Sjobeck, M.-L. 2718, 2719, 3255, 3612, 4395, 4653, 5381

Skaare, J.U. 2785-2788, 3043-3046, 3430-3432, 3701-3703, 3729-3732, 4077-4080, 5558, 5651

Skender, L. 4277

Sklan, D. 5257

Sloan, R. 3877, 3878, 3880-3882, 3884-3890, 3893-3897

Smiley, K. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Smith, G.S. 3984, 3985, 5495-5497

Smith, J.H. 2778-2782

Smith, L.M. 4945-4956

Smith, R. 3879, 3883, 3898-3902

Smith, S.D. 2720

Smith, S.I. 4730, 4801, 4802, 5084

Soine, P.J. 5544-5546

Solbakken, J.E. 4810-4813

Sorensen, E.M.B. 5122-5129

South, P.J. 5081, 5091

Spagone, C. 2916, 2937, 3026, 3030, 3035, 3042

Springer, A.M. 2940, 2941, 4019, 4020

Srivastava, S.N. 3514, 4199, 4267, 4550, 5263

Stafford, C.J. 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5587, 5588, 5616, 5745, 5748, 5750, 5755, 5772, 5807, 5812

Stalling, D.L. 4945-4956

Steffey, K.L. 3415, 3709, 3795, 3796, 5549, 5550, 5592, 5758, 5815, 5816

Steiner, J.W. 2700-2702, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283

Stephenson, D.C. 3358

Stevens, J.B. 4188, 4189, 5085

Stickel, L.F. 2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105

Stickel, W.H. 2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105

Stickle, W.B. 2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800

Stinson, M.D. 3155, 3156, 3545-3547, 4315, 4317, 4323, 4325, 4581, 4582

Stoewsand, G.S. 3201, 3262-3264, 3280, 3282, 3283, 3285-3291

Stone, W.B. 2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 5485-5492, 5498, 5524-5532, 5534-5541

Stoner, J.H. 2659

Stouffer, J.R. 3282, 3285, 3287-3291

Stougger, J.R. 3280, 3283, 3286

Stowe, C.M. 5683, 5686, 5688, 5690

Strik, J.J.T.W.A. 2897

Stubblefield, R.D. 3742-3747, 3749-3751, 3762-3768

Stuedemann, J.A. 4448

Subramanian, B.R. 3806

Sugiura, K. 2769, 3108, 4824, 4837

Sullivan, J.R. 2895

Sumerling, T.J. 3402, 5174

Sundberg, J.P. 4380-4382

Sutton, R.H. 4266

Suzuki, H. 2769, 3108, 4824, 4837

Suzuki, K.T. 2650-2657, 3222, 3223, 3306-3313, 3361, 3362, 3376-3383, 3589, 3590, 3656-3663, 4222, 4223, 4239-4246, 4450, 4451, 4465-4472, 4525-4532, 4884, 4885, 4898-4905, 5041-5048, 5154-5161, 5357, 5358, 5412-5419

Swick, R.A. 3651

Szefer, P. 3182-3186, 3494-3498, 3551-3555, 4216-4220, 4334-4338, 4507-4511, 4762-4766, 5201-5204, 5241-5244, 5321-5325

Takekawa, J. 3665

Tanabe, S. 2918, 3034, 3079, 3107, 3806, 3804, 3842, 3869, 3876, 4166, 4173, 4177, 4179

Tanaka, H. 2918, 3034, 3079, 3107, 3804, 3842, 3869, 3876, 4166, 4173, 4177, 4179

Tanksley, T.D. 2681

Tatsukawa, R. 2663-2677, 2708, 2749, 2760, 2762, 2767, 2775, 2776, 2783, 2789, 2791, 2792, 2880, 2918, 2957, 2978, 3011, 3012, 3025, 3032, 3034, 3050, 3052, 3057, 3073, 3079, 3080, 3107, 3159-3178, 3203, 3240, 3316, 3317, 3440, 3499, 3571, 3790, 3792, 3804, 3806, 3810-3812, 3834, 3836, 3841, 3842, 3847-3849, 3856, 3869, 3870, 3876, 4165-4179, 4221, 4353, 4512, 4585-4597, 4609, 4716-4727, 4767, 5094-5106, 5298-5317, 5344, 5367, 5423, 5424, 5747, 5754, 5810, 5814

Teeny, F.M. 2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4647, 4666, 4667, 4681, 4688, 4714, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444

Teigen, S.W. 2785-2788, 3043-3046, 3430-3432, 3701-3703, 3729-3732, 4077-4080, 5558, 5651

Telfer, S.B. 3521, 3643

Telford, J.N. 3282, 3285, 3287, 3288, 3280, 3283, 3286, 3289-3291

ten Noever de Brauw, M.C. 2707, 2709, 2727-2729

Terashima, Y. 3374, 4463, 5036

Thaler, R.C. 5130, 5132

Thielecke, J.R. 4707, 4710

Thieleke, J.R. 4683, 4684

Thomas, K.W. 3500, 3587, 3588, 4513, 5356

Thome, J.P. 2866-2868, 3719, 3720, 3727

Thomson, A.G. 4147-4151, 4153-4159

Tobin, T. 4733, 4734

Topping, J.J. 2704-2706, 2717, 2901, 2902, 2912, 3036, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311-4313, 4393, 4568, 4569, 4574, 4652, 5287, 5288, 5292, 5378, 5595, 5596, 5601, 5648

Toutain, P.L. 5682, 5685, 5687, 5689, 5691, 5694

Trengove, C.L. 3644, 3652

Trenholm, H.L. 5233

Tribble, L.F. 5709, 5710

Tsitsamis, S.D. 5085

Tucker, R.E. 3374, 4463, 5036

Tuinstra, L.G.M.T. 2897

Turgeon, K.S. 4909-4912

Turner, V.A. 4729, 5723

Tyler, R.D. 2629

Usenik, E.A. 5085

Vallely, P.J. 2700-2702, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283

Vallribera, M. 3548, 4506, 5297

van Beersum, I. 3202, 3570, 4352, 5343

Van Bruwaene, R. 3134, 3137, 3138, 3141-3143, 3213-3215, 3322-3324, 3407-3409, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3506-3509, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493

Van der Zande, T. 3066

van Dijk, H.J. 3748

Van Hassel, J.H. 3121, 3157, 3158, 3319-3321, 4265, 4326, 4327, 4422-4425, 4754, 4760, 4761, 4794-4797, 5258, 5295, 5296, 5432-5434

Van Hoof, F. 3475-3479, 3622-3626, 4783-4787

Van Kerkom, J. 3452, 3454, 3456, 3458, 3459, 3489-3492, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493

Van Miller, J.P. 2696-2698

Vandergraaff, R. 3644, 3652

Varma, K.J. 5679

Vasilikiotis, G. 3217, 3232, 3233, 4360, 4383, 4384, 4621, 4650, 4651

Veit, H.P. 4328

Venant, A. 3693, 3704, 3733, 3857

Viswanathan, P.N. 3384, 3385

Wade, K.R. 2659

Wahlstrom, R.C. 5130, 5132

Walker, W. 2940, 2941, 4019, 4020

Waller, W.T. 5245-5247

Walton, B.J. 2940, 2941, 4019, 4020

Watanabe, E. 4805-4807, 5020

Watanabe, I. 2663-2677, 2749, 2760, 2762, 2767, 2775, 2776, 2783, 2789, 2791, 2792, 2880, 2957, 2978, 3011, 3012, 3025, 3032, 3050, 3052, 3057, 3080, 3790, 3792, 3810-3812, 3834, 3836, 3841, 3847-3849, 3870, 4165, 4167-4172, 4174-4176, 4178

Watanabe, N. 4805-4807, 5020

Watanabe, T. 3712, 3721

Watling, H.R. 3144, 3228, 3230, 3235, 3249, 3252, 3292-3299, 3314, 3460, 3468-3470, 3472, 3484, 3493, 3501-3505, 3534, 3596-3598, 3608, 3610, 3655, 3664, 4210, 4247, 4310, 4379, 4385, 4391, 4394, 4418, 4499, 4533, 4759, 4768, 4769, 4776, 4777, 4791, 5285, 5364-5366, 5377, 5379, 5411, 5420

Watling, R.J. 3144, 3228, 3292-3299, 3314, 3460, 3484, 3493, 3505, 3534, 3596, 3655, 3664, 4210, 4247, 4310, 4418, 4499, 4533, 4759, 4791, 5285, 5364, 5411, 5420

Weaver, G. 2876, 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102

Weaver, G.L.H. 5709, 5710

Wedemeyer, G.A. 2720

Wells, D.E. 4141-4146, 4966-5019

Whaling, P.J. 4622

Wheatly A. 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Whitbeck, G.A. 5081, 5091

White, D. 3651

White, D.H. 2881, 2886, 2896, 2905, 2910, 2955, 2982-2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3813-3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3933-3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4039-4052, 4070, 4099, 4100, 4102, 4123-4139, 4859, 5207-5210, 5212, 5213,

5215, 5216, 5218-5227, 5229-5232, 5484, 5494, 5513-5519, 5542, 5566, 5568-5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5617-5625, 5643, 5666, 5751, 5752, 5771, 5773, 5808

Wickstrom, K. 3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872

Wiemeyer, S.N. 2755, 2934, 3179, 3805, 3927, 4003, 4014, 4329, 4598, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Wilkinson, S.R. 4448

Wilson, D. 5080

Wilson, P.D. 4266

Wilson, R.C. 3910, 4163, 5060

Wilson, R.P. 5079

Wilson, S.J. 3346

Winger, P.V. 3665

Winterlin, W. 5709, 5710

Womac, C. 4275, 4278-4280, 4282, 4284, 4285, 4287, 4289, 4292, 4295, 4297-4299, 4301-4307, 4309

Wren, C.D. 2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5142-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390

Yamagishi, T. 5234-5239

Yamato, Y. 3712, 3721

Yasutake, W.T. 2720

Yost, G.S. 5059, 5448, 5449

Younger, R.L. 3523, 3524, 3527, 3530, 3533, 4202, 4204-4206, 4208, 4283, 4286, 4291, 4294, 4308, 4483, 4484, 4486, 4488, 4492, 5272, 5274, 5277, 5280, 5284

Zahner, J.M. 5060

Zaidi, S.H. 3514, 4199, 4267, 4550, 5263

Zaidi, T.H. 4778-4780, 4792, 4793, 4798, 4799, 5248-5253

Zaroogian, G.E. 3629, 3630, 4770, 4775

Zeringue, L. 5080

Zervas, G. 3521, 3643

Zinkl, J.G 4838-4843, 4845-4858

Zinkl, J.G. 4054-4057

Zmudski, J. 4275, 4279, 4282, 4285, 4289, 4295, 4299, 4302, 4304, 4306, 4307

Zmudski, J. 4278, 4280, 4284, 4287, 4292, 4297, 4298, 4301, 4303, 4305, 4309

Zotou, A. 3217, 3233, 3238, 4360, 4383, 4384, 4621, 4650, 4651

Amphipod
Body 5065, 5432

Arca
Muscle 4264

Auk, Japanese
Feathers 4536

Auk, little
Adipose 2747, 2877, 3970
Liver 2748, 2878, 3971, 4537

Barbel, steed
Muscle 4805

Bass, black sea
Blood 3111, 4742
Body 2879
Brain 3112, 4743
Gall bladder 3113, 4744
Gills 3114, 4745
Heart 3115, 4746
Kidney 3116, 4747
Liver 3117, 4748
Muscle 3118, 4749
Skin 3119, 4750

Bass, Japan sea
Body 2663, 2672, 2749, 2880, 3790, 4165

Bass, largemouth
Body 2881, 3120, 3918, 3972, 4123, 5207, 5586

Bass, rock
Body 3121, 4265, 4754, 5258
Muscle 3877

Bass, smallmouth
Muscle 3878

Bass, striped
Body 2882, 3879, 3896
Heart 4538
Liver 4539
Muscle 4540

Bass, white
Body 4541
Heart 4542
Liver 4543
Muscle 4544

Bat, big brown
Adipose 3973

Bat, Eastern Pipistrelle
Adipose 3974

Bat, gray
Body 5587
Brain 5588, 5748, 5755

Bat, grey-headed fruit
Kidney 4266

Bat, little brown
Adipose 3975
Body 5589
Brain 5590

Beaver
Intestine 2634, 3122, 3347, 3510, 4195, 4443, 4476, 4755, 4877, 5021, 5075, 5137, 5259
Kidney 2635, 3123, 3348, 3511, 4196, 4444, 4479, 4756, 4878, 5022, 5076, 5138, 5260
Liver 2636, 3124, 3349, 3512, 4197, 4445, 4480, 4757, 4879, 5023, 5077, 5139, 5261
Muscle 2637, 3350, 3513, 4198, 4446, 4481, 4758, 4880, 5078, 5262

Becuna
Muscle 4545

Blackbird, red-winged
Brain 2883, 2976

Blackfish, Sacramento
Heart 4548
Muscle 4547

Bleak (fish)
Body 2884

Bloater
Body, whole 4259

Bluebird, western
Brain 4255, 4549

Liver 4550, 4550

Bluefish
Body 2941

Bluegill
Body 2070, 2855, 2791, 2815, 2977, 4124, 5298

Bonito
Muscle 4542

Bourgeois
Muscle 4549

Brant, American
Adipose 2957, 3078
Brain 2956
Liver 2955, 3079
Muscle 2930

Bream, sea
Body 2792

Buffalo
Blood, serum 3079

Buffalo, water
Lung 3514, 4180, 4267, 4550, 5262

Bufflehead
Adipose 2931
Bone 4266, 5264
Kidney 3125, 3515, 4268, 5263
Liver 2952, 3126, 3516, 3955, 5255
Muscle 2956, 2961

Bullfrog
Body 2798, 2955, 5259

Bullhead
Body 3157, 4270

Bullhead, brown
Liver 4551
Muscle 2959, 4552

Butterfish
Body 2954

Buzzard
Bone 4147

Caddisfly
Body 3126, 3517, 4271, 5257

Canvasback
Bone 4272, 5266
Kidney 3120, 3518, 4273, 5260
Liver 3120, 3518, 5270

Carnegie bale
Muscle 4553

Carp
Body 2981, 2992, 4554
Heart 4555
Liver 4556
Muscle 2985, 4557

Carp, common
Body, whole 4945, 4961

Carp, deepbodied crucian
Muscle 4826

Carp, silver
Body 5220

Catfish, channel
Body 2998, 2784, 3520, 3988, 4126, 5210, 5261
Heart 4558
Liver 4559
Muscle 2982, 4560, 5279

Catfish, white
Heart 4561
Liver 4562
Muscle 4563

Cattle
Adipose 2985, 2999, 2975, 2788, 2811, 2954, 4780, 5139, 5720, 5750, 5959
Bile 2762, 2763
Blood 2720, 2121, 2530, 2760, 2779, 4209, 4274-4279, 4560, 5251, 5272
Blood, cells 2959
Blood, plasma 2551, 2560, 2992, 4559, 4810, 4951, 5254, 5267, 5268, 5269, 5282, 5284, 5285, 5446, 5958, 5971, 5741
Blood, serum 2958, 2954, 2959, 2960, 4154, 4156, 4251, 4447, 4559, 4951, 4952, 5107, 5252, 5253

Blood, whole 4862, 5087, 5730, 5757
Bone 4279, 4280, 4482
Brain 2690, 3523, 3705, 3777, 4202, 4281-4284, 4483, 5272, 5731
Caruncles 5684
Hair 2683, 2699, 2731, 2736, 3110, 3397, 3398, 3451, 3488, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273
Heart 3524, 3706, 3744, 3763, 3778, 4204, 4285-4287, 4484, 4737, 5274, 5732
Intestine 3452
Kidney 2691, 2700, 2732, 3132-3134, 3453, 3525-3527, 3707, 3745, 3764, 3779, 3912, 4205, 4288-4292, 4485, 4486, 4564, 4738, 4863, 5089, 5275-5277, 5685, 5686, 5733
Liver 2686, 2692, 2701, 2733, 3135-3137, 3454, 3455, 3489, 3528-3530, 3708, 3746, 3765, 3780, 3913, 4206, 4293-4297, 4487, 4488, 4565, 4739, 4864, 5090, 5278-5280, 5687, 5688, 5734
Lung 3747, 3766, 3781, 4298, 5689, 5690
Milk 2661, 2687, 2693, 2750, 3138, 3354, 3401, 3402, 3415, 3456, 3490, 3709, 3748, 3782, 3796, 3985, 4189, 4207, 4489, 4930, 5052, 5091, 5164, 5174, 5175, 5233, 5281, 5550, 5592, 5735, 5742, 5743, 5758, 5816
Muscle 2702, 2751, 3139-3141, 3457, 3491, 3531, 3532, 3749, 3767, 3783, 3914, 4299-4301, 4490, 4566, 4740, 5092, 5282, 5283, 5691, 5736
Nerve 4302, 4303
Ovary 3784, 5692, 5693, 5737
Pancreas 3750, 4304, 4305
Skin 4491
Spinal cord 4306
Spleen 3458, 3533, 3785, 4308, 4307-4309, 4492, 4741, 5284, 5694, 5738
Thyroid gland 2688
Tongue 3786, 5739
Udder 3787
Urine 2734, 3142, 3459, 3492, 3710, 3751, 3768, 3788, 4209, 4493, 5093, 5740
Uterus 5695, 5696

Cattle, Hereford
Blood, serum 4140

Chamois
Liver 3403, 4931

Char
Muscle 4957

Chicken
Adipose 2697, 4820, 5460
Blood 2744
Blood, plasma 3915, 4494, 4882, 5054, 5093
Body 3143
Bone 4495
Bone marrow 5461
Brain 5462
Eggs 2745, 5463
Feathers 5709
Gizzard 3737, 3752, 3757, 3769
Heart 3738, 3758, 3770, 5464
Intestine 5465
Kidney 3739, 3753, 3759, 3771, 4496, 5466
Liver 3404, 3740, 3754, 3760, 3772, 4497, 4821, 4928, 5467
Lung 5468
Muscle 3741, 3755, 3761, 3773, 4498, 5469
Ovary 5470
Skin 5471, 5710
Spleen 5472
Stomach 5473

Chicken, white leghorn
Blood, plasma 3355
Blood, serum 3449
Body 5450, 5451
Eggs 3450
Eggshell gland 3356, 3936

Chironomid
Body 2684, 2698

Chub
Body 2699

Clam
Body 2752, 2862, 3144, 3416, 3460, 3493, 3534, 3694, 3797, 3798, 4210, 4810, 4499, 4759, 4822, 4913, 4915, 5096, 5285, 5453, 5564, 5593, 5759

Clam, Asiatic
Body, whole 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823

Clam, freshwater Asiatic
Body 3536

Clam, hard-shell
Body 2704, 2901, 3146, 3418, 3462, 3537, 3711, 3922, 3988, 4311, 4568, 5287, 5595

Clam, papershell
Body 2679

Clam, short-necked
Body 3712, 5234

Clam, soft-shell
Body 2705, 2902, 3147, 3419, 3463, 3538, 3713, 3923, 3989, 4312, 4569, 5288, 5596
Muscle 3148, 3539, 4211, 4501, 4570, 5289

Clam, thin-shelled surf
Body 5235

Cockle
Muscle 3149, 3540, 4212, 4502, 4571, 5290

Cod
Body 2903
Liver 2753, 2819, 2827, 2834, 4953
Muscle 2754

Cod, pacific
Muscle 2636, 2737, 3357, 3464, 3541, 4213, 4436, 4449, 4503, 4572, 4883, 5026, 5141, 5166, 5291

Coelenterate
Body 3150

Coot, American
Adipose 2904
Body 2905, 3714, 3800, 3924, 3990, 4126, 5212, 5486, 5597
Liver 2906
Muscle 2907

Copepod
Body 3151

Cormorant, cape
Eggs 2908, 3991

Cormorant, Temminck's
Feathers 4573

Cormorant, white-breasted
Eggs 2909, 3992, 5598

Cottonmouth
Body 2910, 3715, 3801, 3925, 3993, 4127, 5213, 5484, 5599

Cowbird, brown-headed
Brain 2911, 3994

Crab
Body 2863, 3802, 5600, 5761
Exoskeleton 3903
Gills 3904
Hepatopancreas 3905
Muscle 3906
Testis 3907

Crab, blue
Body 2706, 2912, 3152, 3420, 3485, 3542, 3716, 3926, 3995, 4313, 4574, 5292, 5601

Crab, Dungeness
Hepatopancreas 3153, 3543, 4214, 4504, 4575, 5293
Muscle 3154, 3544, 4215, 4505, 4576, 5294

Crab, Mediterranean shore
Body 2913

Crappie, white
Heart 4577
Liver 4578
Muscle 4579

Crayfish
Abdomen 4580
Body 2996, 4314, 5027, 5484
Body, whole 3155, 4315

Digestive tract 4316
Exoskeleton 3545, 4317, 4318, 4561
Exuvia 4319
Gills 4320
Green gland 4321
Hepatopancreas 4322
Muscle 3546, 4323, 4324, 4562
Organs 3156, 3547, 4325

Croaker, white
Muscle 2914, 3803

Cunner
Body 2915

Curlew, Indian
Feathers 4583

Cuttlefish
Muscle 2916

Dab
Muscle 2707

Dace, blacknose
Body 3157, 4326, 4760, 5295

Dace, Japanese
Muscle 4807

Darter, fantail
Body 3158, 4327, 4761, 5296

Deer, mule
Bone 5167
Liver 3399
Muscle 3405
Rumen 3400

Deer, roe
Liver 3406, 4983

Deer, white-tailed
Blood, plasma 3358

Diver, pacific
Feathers 4584

Dogfish
Body 2917
Liver 3548, 4506, 5297

Dolphin, striped
Adipose 2918, 3804, 4166, 4585, 4716, 5094
Blood 3159, 4586, 5095, 5298
Blubber 3160, 5299
Bone 3161, 5300
Brain 3162, 4587, 4717, 5096, 5301
Diaphragm 3163, 4588, 4718, 5097, 5302
Heart 3164, 4589, 4719, 5098, 5303
Intestine 3165, 4590, 4720, 5099, 5304
Kidney 3166, 4591, 4721, 5100, 5305
Liver 3167, 4592, 4722, 5101, 5306
Lung 3168, 4593, 4723, 5102, 5307
Mammary gland 3169, 5308
Milk 3170, 5309
Muscle 3171, 4594, 4724, 5103, 5310
Ovary 3172, 5311
Pancreas 3173, 4595, 4725, 5104, 5312
Placenta 3174, 5313
Skin 3175, 5314
Spleen 3176, 4596, 4726, 5105, 5315
Stomach 3177, 4597, 4727, 5106, 5316
Testis 3178, 5317

Dove, mourning
Adipose 2919, 3997, 5602, 5762
Brain 5603, 5763
Heart 3998, 5604, 5764
Liver 3999, 5605, 5765
Muscle 4000, 5606, 5766

Dove, ringed turtle
Testis 4328

Duck
Eggshell gland 4001

Duck, black
Adipose 2920, 3900, 4002, 5485
Blood, whole 3179, 4003, 4329, 4598
Bone 4330, 4331, 5318
Brain 2921, 4004, 5486
Kidney 3180, 3549, 4332, 5319
Liver 2922, 3181, 3550, 4005, 4333, 5320, 5487
Muscle 2923, 4006, 5488

Duck, long-tailed
Feathers 3182, 3494, 3551, 4216, 4334, 4507, 4762, 5321
Heart 3183, 3495, 3552, 4217, 4335, 4508, 4763, 5201, 5241, 5322

Liver 3184, 3496, 3553, 4218, 4336, 4509, 4764, 5202, 5242, 5323
Muscle 3185, 3497, 3554, 4219, 4337, 4510, 4765, 5203, 5243, 5324
Stomach 3186, 3498, 3555, 4220, 4338, 4511, 4766, 5204, 5244, 5325

Duck, mallard
Adipose 2924, 3901, 4007
Blood, plasma 3359
Bone 3187, 3506, 3556, 4339-4341, 5326, 5327
Brain 2925, 3507, 5459
Eggshell gland 3360
Feathers 4599
Kidney 3188-3190, 3508, 3557-3559, 4342, 4343, 5328-5330
Liver 2926, 3191-3193, 3407, 3509, 3560-3562, 4008, 4344, 4345, 5331-5332, 5490
Lung 3408
Muscle 2927, 3409, 4009

Duck, mallard/black hybrid
Brain 2928
Muscle 2929

Duck, mandarin
Feathers 4600

Duck, ring-necked
Bone 4346, 5334
Kidney 3194, 3563, 4347, 5335
Liver 3195, 3564, 5336

Duck, ruddy
Bone 4348, 5337
Kidney 3196, 3565, 4349, 5338
Liver 3197, 3566, 5339

Duck, tufted
Muscle 4601

Duck, white Pekin
Adipose 2930, 4012
Brain 2931, 4011, 5491
Liver 2932, 4013, 5492
Muscle 2933, 4013

Duck, wood
Adipose 2902, 4002
Liver 3198, 3567, 4350, 5340

Muscle 4604

Eagle, bald
Eggs 2755, 2934, 3605, 3927, 4014, 4605, 5214, 5493, 5542, 5567, 5607, 5744, 5749, 5767, 5806, 5811

Eagle, booted
Eggs 2935, 3199, 3568, 3685, 3717, 3928, 3961, 4015, 4350, 4606, 5341, 5551, 5608, 5768

Eagle, golden
Blood, serum 4160

Eagle, imperial
Eggs 2936, 3200, 3569, 3686, 3718, 3929, 3962, 4016, 4351, 4607, 5342, 5552, 5609, 5769, 5817

Eagle, sea
Muscle 4959

Eagle, Steller's sea
Feathers 4608

Eagle, white-tailed
Body 5186

Earthworm
Body 3201, 3202, 3570, 4352, 5343
Body, whole 2708, 3203, 3690, 3971, 4221, 4353, 4512, 4900, 4767, 5344

Earthworm, aquatic
Body 5028, 5455

Eel
Blood 4354
Gills 3204, 3572, 5345
Liver 3205, 3573, 4355
Muscle 2937, 3206, 3574, 4356

Eel, American
Body 2938

Elder
Adipose 2756, 2939, 4017
Liver 2757, 4018, 4610

Falcon, peregrine
Eggs 2940, 4019

Shell membrane 2941, 4020

Ferret, European
Blood 2942
Body 2943
Urine 2944

Finfish
Body 3207

Fish
Body 2735, 2815, 2821, 2824, 2829, 2832
Body, whole 3806
Bone 4909
Gastrointestinal tract 4910
Muscle 2813, 2864, 3208, 3575, 3807, 4357, 4430, 5346, 5610
Skin 4911
Urine 4912

Flounder
Muscle 2709, 2805, 3808, 5770

Flounder, fourspot
Body 2945

Flounder, summer
Body 2946

Flounder, windowpane
Liver 2947, 3209, 3576, 5136

Flounder, winter
Body 2948

Frog, bronze
Body 4021

Frog, leopard
Body 3210

Frog, southern leopard
Body 4022, 5215

Fulmar
Adipose 2758, 2949, 4023
Liver 2759, 2950, 4024, 4611

Gadwall
Adipose 2951
Bone 4358, 5347
Brain 2952
Kidney 3211, 3577, 4359, 5348
Liver 3212, 3578, 5349
Muscle 2953

Gannet, cape
Eggs 2954, 4025, 5611

Gar, spotted
Body 2955, 3809, 3930, 4026, 4128, 5216, 5494, 5568, 5612, 5771

Goat
Bile 5711
Blood 2710, 4360, 4365
Blood, plasma 2711, 5254, 5712
Blood, whole 5495
Fat 5713
Intestine 5714
Kidney 3213, 5715
Liver 3214, 5716
Milk 2712, 2713, 5255, 5256, 5496, 5717
Muscle 5718
Udder 5719
Urine 2630, 2714, 2715, 3215, 4361, 5497, 5720

Goatfish, gold band
Body 2956

Goby
Body 2664, 2673, 2760, 2957, 3810, 4167, 5226

Goldeneye
Adipose 2958
Brain 2959
Liver 2960, 5498

Goldenorfe ide
Body 4816

Goldeye
Adipose 2761, 2961, 3421, 3687, 3931, 3962, 4027, 5613

Goldfish
Bile 4141, 5499
Body 3216, 3883, 4817
Body, whole 5500
Brain 5501

Gills 4142, 5502
Gut 4143
Heart 5503
Intestine 5504
Kidney 5505
Liver 4144, 5506
Muscle 3884, 4145
Ovary 5507
Pancreas 5508
Skin 4146
Spinal cord 5509
Spleen 5510
Testis 5511

Goose, Canada
Liver 2962
Muscle 2963

Grackle
Body 2964
Brain 2965

Grackle, common
Body 4028
Brain 4029

Grackle, great-tailed
Gut 4859

Grebe, black-necked
Feathers 4612

Grebe, eared
Adipose 2966, 4030
Brain 2967, 4031
Liver 2968
Muscle 2969, 4032

Grebe, great crested
Bone 4148

Grunt
Body 2762, 3811

Gudgeon
Brain 2966, 3719
Liver 2967, 3720
Muscle 2968

Gudgeon, tupmouth
Body 5287

Guillemot, Brunnich's
Liver 2761, 2970, 4033, 4613

Gull
Adipose 2971
Liver 2972

Gull, Asiatic common
Feathers 4614

Gull, black-headed
Adipose 5187
Liver 5188
Muscle 5189

Gull, California
Eggs 4615
Liver 4616
Muscle 4617

Gull, glaucous
Adipose 2764, 2973, 4034
Liver 2765, 2974, 4035, 4618

Gull, glaucous
Adipose 2766

Gull, grey-headed
Eggs 2975, 4036, 5614

Gull, herring
Adipose 5190
Body, whole 4945, 4952
Eggs 2976, 5191

Gull, kelp
Eggs 2977, 4037, 5615

Gull, slaty-backed
Feathers 4619

Guppy
Body 3721

Gyrfalcon
Feathers 4620

Hairtail
Body 2961, 2969, 2767, 3873, 3813, 4168

Hake
Muscle 3217, 4260, 4961

Hake, blue
Muscle 4622

Hake, red
Body 2979

Hake, silver
Body 2980

Hawk, Asiatic sparrow
Feathers 4623

Hawk, red-tailed
Blood, serum 4161

Hawk, sparrow
Bone 4149
Liver 5192

Heron
Liver 5193

Heron, black-crowned night
Eggs 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812

Heron, eastern reef
Feathers 4624

Heron, green-backed
Adipose 2982, 3813, 3933, 4039, 4129, 5218, 5513, 5569, 5617
Body 2983, 2984, 3722, 3814, 3815, 3934, 3935, 4040, 4041, 4130, 4131, 5219, 5220, 5514, 5515, 5570, 5571, 5618, 5619, 5751, 5773, 5808
Brain 3936, 4042, 5221
Liver 2985, 2987, 4043, 4132, 5222
Muscle 2986, 3938, 4044, 4133, 5223

Heron, grey
Bone 4150

Heron, little blue
Body 2987, 2988, 3723, 3816, 3817, 3939, 3940, 4045, 4046, 4134, 4135, 5224, 5225, 5516, 5517, 5572, 5573, 5620, 5621, 5752

Heron, night
Feathers 4625

Heron, yellow-crowned night
Adipose 4047, 5622
Body 2989, 2990, 3818, 3819, 3941, 3942, 4048, 4049, 5226, 5227, 5518, 5519, 5623, 5624
Brain 4050
Liver 4051, 5625
Muscle 4052

Herring
Body 2991
Muscle 4361, 4431

Hobby
Eggs 2992, 3218, 3579, 3688, 3724, 3964, 4053, 4362, 4626, 5350, 5553, 5774, 5818

Honeybee
Body 2716, 3466, 3580, 4823, 5205

Horse
Blood, plasma 3581, 5351
Blood, serum 3582, 4733
Blood, whole 5775
Kidney 3583, 4363, 5352
Liver 3584, 4364, 5353
Urine 4734

Job
Muscle 4627

Junco, grey-headed
Brain 4840, 4851
Liver 4841, 4852

Kestrel
Blood 4365
Bone 4151, 4152
Liver 4366

Kestrel, American
Adipose 4054
Blood 4055, 4367
Body 4056
Bone 4368, 4369
Brain 4057, 4370
Kidney 4371
Liver 4372, 4373
Muscle 4374
Shell 4375

Kestrel, European
Liver 5194

Killifish
Body 2769, 3106, 4824, 4837

Kingfish
Muscle 4626

Kingfisher
Bone 4153
Liver 5195

Kite, black
Eggs 2860, 2903, 3219, 3585, 3699, 3725, 3943, 3965, 4058, 4376, 4629, 5354, 5554, 5626, 5776

Kite, black-eared
Feathers 4630

Kite, red
Eggs 2861, 2904, 3220, 3586, 3900, 3726, 3944, 3966, 4059, 4377, 4631, 5355, 5555, 5627, 5777, 5819

Koala
Blood, plasma 3587
Liver 3500, 3588, 4513, 5356

Lamprey
Muscle 4900

Limpet
Body 2995, 3221

Lizard, water
Kidney 3222, 3361, 3589, 4222, 4450, 4884, 5357
Liver 3223, 3362, 3590, 4223, 4451, 4885, 5358

Lobster, Atlantic
Body 2996

Loon, common
Adipose 2770, 2907, 3433, 3620, 4062, 5520, 5626, 5778
Blood 2908, 3621, 4633
Body 4634
Brain 2771, 2909, 3429, 3623, 4635, 5521, 5630, 5779
Embryos 2772, 3000, 3434, 3625, 3945, 4060, 4636, 5522, 5630, 5780
Feathers 3001, 3624, 4637, 5631
Gizzard 3002, 3625, 4638, 5632
Heart 3003, 3626, 4639, 5633
Intestine 3004, 3627, 4640, 5634
Kidney 3005, 3628, 4641, 5635
Liver 2773, 3006, 3629, 4642, 5636, 5781
Lung 3007, 3630, 4643, 5637
Muscle 2774, 3008, 3435, 3631, 4644, 5523, 5638, 5782
Uropygial gland 3009, 3632, 4645, 5639
Uropygial oil 3010, 3633, 5640

Mackerel
Body 2775, 3011, 3634, 4169
Muscle 2999, 3635, 4646, 5558, 5574, 5641

Mackerel, Atka
Muscle 2939, 2738, 3263, 3437, 3591, 4224, 4437, 4452, 4514, 4887, 4986, 5027, 5142, 5188, 5359

Mackerel, horse
Body 2674, 2776, 3012, 3636, 4170

Mayfly
Body 3224, 3592, 4876, 5060, 5360, 5458

Merganser, American
Adipose 3013, 4061, 5524
Brain 3014, 4062, 5525
Liver 3015, 4063, 5526
Muscle 3016, 4064, 5527

Merganser, hooded
Adipose 3017, 4065, 5528
Liver 3018, 4066, 5529
Muscle 3019, 4067, 5530

Merganser, red-breasted
Adipose 3020, 3551
Brain 3021, 3552
Eggs 2777, [illegible]

Merlin
Bone 4154

Midge
Larvae 3727

Mink
Adipose 2778
Brain 2779
Kidney 2780
Liver 2781
Muscle 2782

Minnow, fathead
Body 5056
Body, whole 3225, 3593, 5361
Gills 3226, 3594, 5362
Organs 3227, 3595, 5363

Minnow, sheepshead
Body 4914
Body, whole 2836, 2837, 3789

Mollusc sp.
Body 3228, 3596, 5364

Mollusk
Body 3229, 3230, 3468, 3501, 3597, 4379, 4768, 5365

Mollusk, cephalopod
Body 3231

Monkey, rhesus
Blood, serum 2696
Milk 2697
Skin 2698

Mosquitofish
Body 2838, 3838, 3947, 4070, 4136, 4649, 5229, 5643

Mouse, deer
Bone 4180
Kidney 4181
Liver 4182

Mouse, house
Body 2829

Mullet
Body 2668, 2670, 2675, 2788, 3025, 4171
Muscle 3026, 3232, 4383, 4650

Mullet, golden gray
Body 3027

Mullet, red
Body 3028

Mullet, striped
Body 3029
Muscle 2870, 3839, 5557, 5576, 5644, 5784

Mullet, white
Muscle 2871, 3840, 5577, 5645, 5785

Murex
Body 3030

Mussel
Body 2667, 2676, 2817, 2822, 2825, 2830, 3031, 3032, 3233-3235, 3469, 3502, 3598, 3841, 4172, 4384, 4385, 4651, 4769, 5366
Gills 3236
Hepatopancreas 3237
Kidney 3238
Mantle 3239

Mussel, blue
Body 3033, 5238

Mussels
Body 4770

Myctophid
Body 3034, 3842, 4173
Body, whole 3240, 5367

Nudibranch
Body 3035

Nuthatch, pygmy
Brain 4242, 4353
Liver 4243, 4354

Oldsquaw
Bone 4236, 5236
Kidney 3241, 3599, 4237
Liver 3242, 3600, 5369

Otter
Intestine 2640, 3242, 3364, 3601, 4225, 4453, 4515, 4771, 4887, 5028, 5107, 5142, 5370
Kidney 2641, 3244, 3365, 3602, 4226, 4454, 4516, 4772, 4888, 5029, 5108, 5144, 5371
Liver 2642, 3366, 3603, 4227, 4455, 4517, 4773, 4889, 5030, 5109, 5145, 5372
Muscle 2643, 3367, 3604, 4228, 4456, 4518, 4774, 4890, 5110, 5373

Otter, river
Bone 3245, 3605, 4388, 5374
Kidney 3246, 3606, 4389, 5375
Liver 3247, 3607, 4390, 5376

Owl, barn
Body 4071, 5646, 5728
Bone 4155
Eggs 4072, 5647
Liver 5196

Owl, great horned
Blood, serum 4162

Owl, little
Bone 4156

Owl, long-eared
Bone 4157
Liver 5197

Owl, short-eared
Bone 4158

Owl, tawny
Bone 4159

Oyster
Body 3248-3250, 3470, 3568, 3608, 4391, 4751, 4775, 4776, 5239, 5377
Muscle 4392

Oyster, American
Body 2717, 3036, 3251, 3426, 3471, 3609, 3720, 3948, 4078, 4266, 4852, 4825, 4916, 5378, 5648
Gills 4826, 4917
Mantle 4827, 4918
Muscle 4828, 4919

Oyster, Pacific
Body 3252, 3472, 3504, 3610, 4394, 4777, 5379

Oystercatcher, African black
Eggs 3037, 4074, 5649

Penguin, jackass
Eggs 3038, 3643, 4075

Perch
Gills 3253, 3611, 5380
Liver 2718, 3254-3256, 3612, 3613, 4395, 5381, 5382
Muscle 2719, 3257, 3614, 4653

Perch, white
Muscle 3865

Perch, yellow
Body 4654
Body, whole 4947, 4953
Heart 4655
Liver 4656
Muscle 4657

Periwinkle
Body 3258

Pheasant
Liver 5721
Muscle 5722

Pheasant, green
Feathers 4653

Phytoplankton
Body 3259

Pike
Liver 3039, 3427, 3644, 4261
Muscle 3040, 3428, 3645, 4262, 4396, 4961

Pike, northern
Adipose 2784, 3843, 3941, 3429, 3691, 3946, 4076, 4263, 4962, 5650
Bile 3845, 4267, 4963, 4964, 4965
Blood 4969, 4970, 4966, 4967
Body 3844, 4261, 5111
Brain 3845, 4271, 4972, 4973, 4974
Esophagus 4972, 4974, 5070, 5071

Eye 2846, 4975, 4976, 5002, 5003
Gall bladder 2847
Gas bladder 2848
Gills 2849, 4977, 4978, 5004, 5005
Gonads 2850
Heart 2851
Intestine 2852, 4979, 4980, 5006, 5007
Kidney 2853, 4981, 4982, 5008, 5009
Liver 2854, 4662, 4983, 4984, 5010, 5011, 5112
Muscle 2855, 3886, 4985, 4986, 5012, 5013
Scales 2856
Skin 2857, 4987, 4988, 5014, 5015
Spleen 2858, 4989, 4990, 5016, 5017
Stomach 2859, 4991, 4992, 5018, 5019

Pike, walleye
Muscle 3887

Pilchaid
Muscle 3042

Pilchard
Muscle 4663

Pintail
Bone 4396, 5383
Kidney 3260, 3615, 4397, 5384
Liver 3261, 3616, 5385

Platte vielle
Muscle 4664

Plover
Muscle 4665

Pollock, walleye
Muscle 2644, 2739, 3368, 3473, 3617, 4229, 4438, 4457, 4519, 4666, 4891, 5031, 5146, 5169, 5386

Pomfret
Muscle 2645, 2740, 3369, 3474, 3618, 4230, 4439, 4458, 4520, 4667, 4892, 5032, 5147, 5170, 5387

Pomfret, black
Muscle 4398

Prawn
Muscle 4399, 4432

Ptarmigan, willow
Muscle 4668

Puffin
Brain 2785, 3043, 3430, 3729, 4077
Eggs 2786, 3044, 3701, 3730, 4078
Liver 2787, 3045, 3431, 3702, 3731, 4079
Uropygial gland 2788, 3046, 3432, 3703, 3732, 4080, 5558, 5651

Pumpkinseed
Muscle 3888

Quail, Japanese
Egg, yolk 5062
Kidney 3262
Liver 3263, 5063
Muscle 3264

Queenfish
Gastrointestinal tract 4778, 5248
Liver 4779, 5249
Muscle 4780, 5250

Rabbit, wild
Body, whole 4933

Raccoon
Kidney 2646, 3265, 3370, 3619, 4231, 4459, 4521, 4781, 4893, 5033, 5113, 5148, 5388
Liver 2647, 3266, 3371, 3620, 4232, 4460, 4522, 4894, 5034, 5114, 5149, 5389
Muscle 2648, 3372, 3621, 4233, 4461, 4523, 4782, 4895, 5115, 5390

Rail, eastern water
Feathers 4669

Roach
Gills 3475, 3622, 4783
Kidney 3476, 3623, 4784
Liver 3477, 3624, 4785
Muscle 3047, 3433, 3478, 3625, 3846, 4670, 4786
Opercle 3479, 3626, 4787

Robin
Brain 2049, 4081, 5559, 5652, 5786, 5820

Heart 3049, 4062, 5653, 5787
Liver 4063, 5654, 5788
Muscle 4064, 5655, 5789, 5821

Ruff
Muscle 4071

Sailfish
Muscle 4072

Salmon
Gills 5901
Liver 3627, 5902
Muscle 3628, 4073, 4955, 5903

Salmon, Chinook
Muscle 3889

Salmon, Coho
Body 2720
Muscle 3890

Sandpiper
Muscle 4074

Sandworm
Body 5727

Sardine
Body 2668, 2671, 2677, 2789, 3050, 3847, 4174
Muscle 4075

Sauger
Adipose 2790, 3051, 3424, 3902, 3950, 4065, 5650

Saury, Pacific
Body 2791, 3052, 3849, 4175

Scallop
Body 3297

Scallop, bay
Intestine 3629
Muscle 3630

Scaup, greater
Adipose 3053, 4066, 5536
Bone 4400, 5394
Brain 3054, 4067, 5537
Kidney 3268, 3831, 4401, 5395
Liver 3055, 3269, 3832, 4068, 5396, 5538
Muscle 3056, 4069, 5539

Scaup, lesser
Bone 4402, 5397
Kidney 3270, 3833, 4403, 5398
Liver 3271, 3834, 5399

Scorpionfish
Body 3792, 3857, 3949, 4176

Scoter, surf
Adipose 3058
Liver 3059
Muscle 3060

Scoter, white-winged
Adipose 3061, 4070
Bone 4404
Brain 3062
Kidney 3272, 3835, 4405, 5400
Liver 3063, 3273, 3836, 4091, 5401, 5540
Muscle 3064, 4092, 5541

Sculpin, mottled
Body 5070, 5457

Scup
Body 3065

Seal
Adipose 4094

Seal, gray
Adipose 4095
Body 5120

Seal, harbour
Adipose 3066

Seal, harp
Adipose 2795, 3067, 3435, 3850, 4096, 5657, 5790
Blood 3068, 3274, 3837, 3851, 4054, 4408, 4670, 5118
Brain 2794, 3069, 3275, 3407, 3838, 3852, 4055, 4407, 4677, 5117, 5655, 5791
Kidney 2796, 3070, 3276, 3407, 3839, 3853, 4056, 4408, 4678, 5119, 5656, 5792

Liver 2796, 3071, 3277, 3438, 3640, 3854, 4097, 4409, 4979, 5119, 5680, 5792
Muscle 2797, 3072, 3278, 3439, 3641, 3855, 4098, 4410, 4680, 5120, 5681, 5794

Seal, Weddell
Adipose 3072, 3440, 3856, 5747, 5754, 5810, 5814

Shad, American
Muscle 2649, 2741, 3272, 3430, 3642, 4234, 4440, 4462, 4524, 4681, 4896, 5035, 5150, 5171, 5402

Shad, threadfin
Body 3074, 3951, 4099, 4137, 5230, 5578

Shag, pelagic
Feathers 4682

Shark
Muscle 4683

Shark, tiger
Muscle 4684

Sheep
Adipose 2692, 2704, 2722, 2857, 5176
Blood 2721, 5121
Blood, plasma 2246, 2274, 2392, 2642, 2644, 2910, 4462, 4720, 4901, 5036, 5059, 5125, 5257, 5449, 5624
Blood, serum 2275, 4163, 4225, 4464, 4897, 5037, 5151
Blood, whole 5177
Bone 2279, 2481, 2645, 4226, 4411, 4685, 4788, 5403
Brain 5178
Heart 5179
Kidney 2796, 3280-3282, 3410, 3482, 3646, 3647, 4227, 4412, 4413, 4432, 4686, 4789, 4942, 5038, 5180, 5404, 5405
Liver 3283-3285, 3411, 3412, 3483, 3648-3653, 4228, 4414, 4415, 4424, 4687, 4732, 4790, 4934, 4943, 5039, 5181, 5406-5408
Milk 2722, 4190
Muscle 2799, 3286, 3287, 3413, 4416, 5040, 5182
Pancreas 5409
Spleen 5183
Testis 3288
Thyroid gland 4191
Tongue 5184
Urine 2723, 3654, 4803, 5185, 5410

Sheep, Finn-Dorset
Kidney 3289
Liver 3290
Muscle 3291

Sheep, Iranian fat-tailed
Blood, plasma 2724
Milk 2725
Urine 2726

Shell, wedge
Body 3292, 3655, 5411
Digestive gland 3293
Foot 3294
Gills 3295
Gonads 3296
Mantle 3297
Muscle 3298
Syphon 3299

Shiner, blacktail
Body 3075, 3952, 4100, 4138, 5579

Shiner, blacktailed
Body 3231

Shiner, golden
Body 3240

Shrew sp.
Adipose 3658
Body, whole 3659
Milk 3660

Shrew, common
Body 3300
Bone 3301
Heart 3302
Kidney 3303
Liver 3304
Muscle 3305

Shrew, short-tailed
Body, whole 3661
Stomach 3662

Urine 3962

Shrimp
Body 3076
Muscle 3727, 4417, 4425

Shrimp, blue
Body 2972, 3984, 5560, 5662, 5795

Shrimp, deep-water pink
Body 3077

Shrimp, rock
Body 2973, 3985, 5563, 5796

Shrimp, white
Body 2974, 3986, 5560, 5561, 5664, 5797

Silkworm
Alimentary canal 2650, 3206, 3270, 3656, 4239, 4485, 4525, 4926, 5041, 5154, 5413
Fat body 2651, 3207, 3277, 3957, 4240, 4486, 4526, 4930, 5042, 5155, 5413
Gonads 2652, 3208, 3278, 3958, 4241, 4487, 4527, 4900, 5043, 5156, 5414
Head 2653, 3209, 3279, 3959, 4242, 4488, 4528, 4901, 5044, 5157, 5415
Integument 2654, 3210, 3280, 3960, 4243, 4489, 4529, 4902, 5045, 5158, 5416
Malpighian tubes 2655, 3211, 3281, 3961, 4244, 4470, 4530, 4903, 5046, 5158, 5417
Silk gland 2656, 3212, 3282, 3962, 4245, 4471, 4531, 4904, 5047, 5160, 5418
Trachea 2657, 3213, 3283, 3963, 4246, 4472, 4532, 4905, 5048, 5161, 5419

Snail
Body 3214, 3964, 3464, 3965, 3964, 4247, 4418, 4529, 4782, 5071, 5420
Shell 3965

Snail (Hydrophobia)
Body 5462

Snail (Physa)
Body 5460

Snail, apple
Body 3965

Snail, aquatic
Body 4419
Shell 4420

Snail, saltwater
Body 3215, 3485, 3966, 4248, 5481

Snake
Adipose 3921
Eggs 3962

Snake, ribbon
Body 3941

Snake, water
Adipose 3734, 3967, 4181, 5581, 5582, 5665, 5799
Adipose tissue 3960
Body 3078, 3735, 3968, 3968, 4182, 4130, 5582, 5542, 5583, 5666
Liver 3901, 3954, 4109, 5562, 5584, 5667, 5799
Muscle 3902, 4104, 5562, 5666, 5660

Snakes, sea
Liver 4782, 5251
Muscle 4783, 5252

Sole
Muscle 2729

Sole, Dover
Muscle 2954, 2742, 3286, 3486, 3967, 4249, 4441, 4473, 4534, 4956, 4906, 5049, 5182, 5172, 5422

Sole, English
Bile 2960, 3962, 4182, 4190, 4782, 4783, 4814, 4815, 5525

Sole, lemon
Muscle 2730

Squid
Body 3079, 3060, 3660, 3970, 4177, 4178
Liver 3216, 5422
Muscle 3217, 5424

Starling
Bone 4689, 5425
Brain 3081, 4105
Gut 4690, 5426
Kidney 4691, 5427
Liver 4692, 5428
Muscle 4693, 5429
Pancreas 5430

Stonefly
Body 3318, 3668, 4421, 5072, 5431

Sucker
Muscle 3893

Sucker, longnose
Adipose 2803, 3082, 3441, 3694, 3955, 4106, 5669

Sucker, northern hog
Body 3319, 4422, 4794, 5432

Sucker, Tahoe
Muscle 4694

Sucker, white
Adipose 2804, 3083, 3442, 3695, 3956, 4107, 5670
Body 3320, 3894, 4423, 4795, 5433
Bone 4424, 4796

Sunfish, green
Liver 5122
Muscle 5123

Sunfish, redbreast
Body 3321, 4425, 4797, 5434

Sunfish, redear
Hepatopancreas 5124
Kidney 5125
Liver 5126
Ovary 5127
Pancreas 5128
Testis 5129

Swan, mute
Blood 4426
Thyroid gland 4192, 4194

Swine
Adrenal gland 5697
Bile 4185, 5544, 5698
Blood 3083, 3916, 5055, 5061, 5130, 5822
Blood, plasma 2662, 3393, 3669, 4186, 4250, 4251, 4259, 5435, 5545
Blood, serum 3448, 5131, 5699, 582C
Bone 4252
Fetus 4729, 5728
Hair 5132
Heart 5700
Intestine 3394, 4260
Kidney 3322, 3670, 4253, 5701
Liver 3323, 3671, 4254, 4255, 4735, 4929, 4935, 5546, 5702
Lung 5703
Lymph node 5704
Milk 3387, 3672, 3673, 4256, 4474, 4907, 5436, 5437
Muscle 2805, 2816, 3324, 3674, 4257, 5705
Spleen 5706
Stomach 3395, 4261
Thyroid Gland 5707
Urine 2681, 3396, 4187, 4262, 5708

Tautog
Body 3084

Teal, blue-winged
Adipose 3085
Liver 3086
Muscle 3087

Teal, common
Muscle 4695

Teal, green-winged
Adipose 3088, 4108
Brain 3089
Liver 3325, 3675, 5438
Muscle 3090

Tench
Gills 3326, 3676, 5439
Liver 3327, 3677, 5440
Muscle 3328, 3678, 5441

Tern, roseate
Eggs 3091, 4109

Thrush
Muscle 4696

Thrush, dusky
Feathers 4597

Thrush, red-bellied rock
Feathers 4598

Tilapia
Muscle 3875, 3726, 3871, 3957, 3960, 3987, 4110, 5385

Trout, brook
Adipose 4587
Bile 5474
Blood 5475
Body 5476
Body, whole 4954, 5245
Intestine 4965
Liver 3933
Muscle 4969, 5246
Ovary 4970
Skin 5247
Urine 5477
Viscera 4971

Trout, brown
Adipose 3092, 3443, 3996, 4111
Body, whole 4948
Gills 3089, 3679
Liver 3329
Muscle 3330, 3995

Trout, lake
Adipose 4972
Body 3990
Body, whole 4949, 4955
Intestine 4973
Liver 4974
Muscle 4975
Ovary 4976

Trout, rainbow
Adipose 4529, 4930
Bile 3931, 4937-4941, 5478
Blood 4999, 5479
Blood, plasma 3968
Blood, whole 4437
Body 3748, 3906, 3912, 3914, 3918, 3920, 3928, 3929, 3929, 3931, 3935, 3965, 3109, 3917, 4728, 4918, 4944, 4956, 5206, 5480, 5482, 5485, 5547, 5548, 5724-5728
Brain 4760
Gills 4701, 4930, 4921, 5442
Intestine 4702, 4931, 4922
Kidney 3389, 4475, 4703, 4923, 4958, 5128
Liver 3390, 4476, 4715, 4932, 4936, 5134, 5448
Muscle 3397, 4704, 4934, 4925
Skin 4935, 4926
Spleen 4705, 4936, 4927
Urine 2932, 5481

Tuna
Muscle 4706

Tuna, bigeye
Muscle 4707

Tuna, bluefin
Body 3098

Tuna, dogtooth
Muscle 4708

Tuna, skipjack
Muscle 4709

Tuna, yellowfin
Muscle 4710, 4711

Tunicate
Body 3231

Turkey
Liver 3414, 3738, 3774, 4988

Turkey wing
Blood 4810
Gills 4811
Hepatopancreas 4812
Muscle 4813

Turtle, green
Liver 3094, 4112
Muscle 3375, 4113

Turtle, hawksbill
Liver 4790, 5253
Muscle 4789

Turtle, loggerhead
Liver 3093, 4114
Muscle 3097, 4115

Turtle, sea
Liver 3906, 3909, 4184, 4180, 4181, 4752, 4805, 4804, 4906, 4909, 5199, 5240

Turtle, snapping
Adipose 2894, 3882
Muscle 2895

Vara vara
Muscle 4712

Vendace
Muscle 3096, 3444, 3872

Vole, meadow
Adipose 3873
Body, whole 3874
Kidney 3833
Liver 3834
Stomach 3875

Vole, short-tailed field
Body 3835
Bone 3836
Heart 3837
Kidney 3838
Liver 3839
Muscle 3840
Teeth 3841

Walleye
Adipose 2807, 3099, 3445, 3697, 3958, 5269, 4116, 5671
Body, whole 4956

Warbler, Grace's
Brain 4845, 4855
Liver 4846, 4856

Warbler, yellow-rumped
Brain 4847, 4857
Liver 4848, 4858

Waterfowl
Muscle 4193

Whale, dog
Body 3842

Whitefish
Muscle 4713

White fish, mountain
Adipose 4117

Whitefish, lake
Adipose 2806, 3100, 3446, 3696, 3959, 4118, 5672

Whitefish, mountain
Adipose 2809, 3101, 3447, 3699, 5673

Whiting
Body 2810
Liver 2811

Whiting, Pacific
Muscle 2660, 2743, 3391, 3487, 3660, 4258, 4442, 4477, 4535, 4714, 4908, 5050, 5153, 5173, 5444

Wigeon, American
Bone 4420, 5445
Kidney 3842, 3681, 4429, 5446
Liver 3844, 3682, 5447

Windowpane
Body 3102

Woodcock
Adipose 3103, 5674, 5801
Brain 4119, 5675, 5802
Heart 3104, 4120, 5676, 5803
Liver 3105, 4121, 5677, 5804
Muscle 3106, 4122, 5678, 5805

Worm, polychaete
Body 3845

Zooplankton
Body 3107, 3876, 4179

Abdomen 4580

Adipose 2668, 2669, 2684, 2747, 2758, 2759, 2761, 2764, 2766, 2770, 2775, 2784, 2790, 2792, 2803, 2804, 2807-2809, 2842, 2877, 2887, 2891, 2897, 2904, 2918-2932, 2934, 2960, 2969, 2969, 2981, 2988, 2991, 2998, 2971, 2973, 2983, 2997, 3015, 3017, 3020, 3041, 3051, 3052, 3058, 3061, 3065, 3067, 3072, 3082, 3083, 3085, 3088, 3089-3101, 3108, 3382, 3421, 3422, 3426, 3434, 3435, 3440-3442, 3445-3447, 3687, 3691-3699, 3704, 3732, 3734, 3771, 3795, 3804, 3818, 3830, 3850, 3858-3862, 3867, 3873, 3891, 3900-3902, 3911, 3931, 3933, 3949, 3950, 3955, 3956, 3958, 3959, 3968-3970, 3973-3975, 3978, 3984, 3997, 4002, 4007, 4010, 4017, 4023, 4027, 4030, 4034, 4039, 4047, 4054, 4061, 4065, 4076, 4085, 4088, 4090, 4098, 4101, 4108-4108, 4111, 4116-4118, 4129, 4186, 4585, 4602, 4687, 4716, 4756, 4930, 4938, 4967, 4972, 4980, 4984-4986, 4988, 5084, 5176, 5187, 5190, 5218, 5468, 5488, 5518, 5520, 5524, 5528, 5531, 5538, 5549, 5561, 5580, 5589, 5602, 5613, 5617, 5622, 5628, 5650, 5656, 5657, 5665, 5669-5674, 5729, 5747, 5754, 5756, 5762, 5778, 5790, 5799, 5831, 5810, 5814, 5815

Adipose tissue 2669

Adrenal gland 5997

Alimentary canal 2626, 2806, 2876, 2916, 4329, 4485, 4525, 4900, 5041, 5154, 5412

Bile 2631, 2660, 2662, 2843, 5743, 5782, 4141, 4183, 4188, 4191, 4721, 4728, 4814, 4815, 4937-4941, 4967, 4968, 4994, 4995, 5474, 5475, 5480, 5544, 5900, 5711, 5825

Blood 2710, 2721, 2760, 2744, 2942, 2968, 3068, 3111, 3181, 3150, 3274, 3320, 3687, 3963, 3748, 3776, 3821, 3831, 3918, 4065, 4084, 4300, 4376-4379, 4954, 4968, 4987, 4495, 4496, 4555, 4575, 4600, 4743, 4810, 4820, 4825, 4828, 4970, 4988, 4997, 5035, 5081, 5085, 5081, 5085, 5110, 5131, 5180, 5371, 5388, 5475, 5479, 5532

Blood, cells 5082

Blood, plasma 2662, 2711, 2734, 2848, 2851, 2852, 2855, 2[illegible]0, 2874, 2886, 2889, 2890, 2921, 3141, 3507, 3542, 3544, 3609, 3610, 3915, 4186, 4280, 4281, 4289, 4488, 4454, 4780, 4800, 4801, 4819, 4881, 4882, 5034, 5086, 5054, 5057-5060, 5082, 5084, 5092, 5135, 5185, 5284, 5287, 5281, 5435, 5448, 5469, 5542, 5680, 5681, 5712, 5741, 5824

Blood, serum 2632, 2639, 2688, 2848, 2875, 2449, 2469, 2622, 2623, 4160, 4160-4169, 4184, 4188, 4201, 4285, 4447, 4448, 4484, 4788, 4987, 5057, 5051, 5085, 5086, 5151, 5151, 5180, 5479, 5482, 5483, 5680, 5858

Blood, whole 2179, 4888, 4870, 4487, 4886, 4962, 5087, 5177, 5485, 5756, 5757, 5775

Blubber 2160, 2389

Body 2648-2670, 2684, 2704-2708, 2710, 2717, 2720, 2735, 2748, 2748, 2752, 2760, 2762, 2767, 2768, 2775, 2776, 2783, 2789, 2791, 2798, 2806, 2810, 2812, 2814, 2815, 2817, 2818, 2829-2836, 2838-2842, 2842, 2838-2841, 2844, 2867, 2868, 2879-2874, 2878, 2879-2882, 2884-2886, 2894, 2896, 2898, 2905, 2911-2908, 2922, 2930, 2912, 2913, 2915, 2917, 2940, 2945, 2946, 2944, 2965-2967, 2984, 2979-2980, 2982, 2984, 2987-2991, 2996, 2998, 3011, 3013, 3028, 3027-3034, 3036, 3038, 3040, 3057, 3058, 3074-3082, 3084, 3089, 3102, 3107-3109, 3120, 3121, 3127, 3128, 3140, 3144, 3146, 3147, 3150-3152, 3167, 3180, 3201, 3202, 3207, 3210, 3222, 3223, 3224, 3226-3231, 3232-3234, 3240, 3252, 3255, 3260, 3267, 3268,

3514, 3515, 3515-3521, 3531, 3535, 3542, 3545, 3554, 3416, 3415-3420, 3426, 3460, 3462, 3468, 3466, 3469-3472, 3484, 3485, 3489, 3501-3505, 3517, 3534, 3536-3538, 3542, 3570, 3580, 3592, 3596-3598, 3602-3610, 3615, 3664-3666, 3668, 3684, 3711-3716, 3721-3723, 3728, 3735, 3750-3794, 3797, 3798, 3802-3802, 3809-3812, 3814-3819, 3834, 3836, 3838, 3841, 3842, 3847-3849, 3864-3866, 3868-3870, 3878, 3879, 3881, 3882, 3884, 3886, 3888, 3889, 3917-3920, 3922-3926, 3930, 3934, 3935, 3939-3942, 3947, 3948, 3951-3953, 3972, 3977, 3982, 3983, 3988-3990, 3996, 3998, 3999, 4021, 4022, 4026, 4028, 4040, 4041, 4045, 4048, 4049, 4049, 4056, 4070, 4071, 4073, 4089, 4100, 4102, 4128-4128, 4130, 4131, 4134-4139, 4165, 4167-4179, 4210, 4247, 4248, 4265, 4270, 4271, 4310-4314, 4326, 4327, 4352, 4373, 4379, 4384, 4385, 4391, 4393, 4394, 4418, 4419, 4421-4423, 4425, 4429, 4538, 4541, 4554, 4568, 4569, 4574, 4624, 4649, 4651, 4652, 4654, 4661, 4728, 4751, 4754, 4759-4761, 4765-4770, 4775-4777, 4791, 4794, 4795, 4797, 4816-4818, 4822-4825, 4837, 4844, 4866, 4913-4916, 5020, 5056, 5065-5072, 5111, 5186, 5196, 5205-5210, 5212, 5213, 5215, 5218, 5219, 5220, 5234-5237, 5239-5282, 5234-5239, 5285, 5287, 5285, 5287, 5286, 5282, 5296, 5298, 5342, 5360, 5364-5366, 5377-5379, 5411, 5420, 5421, 5431-5434, 5450-5459, 5475, 5480, 5482-5484, 5494, 5514-5519, 5542, 5547, 5549, 5560, 5561, 5565, 5568, 5570-5573, 5576-5581, 5583, 5586, 5587, 5589, 5591, 5593, 5595-5597, 5605-5601, 5612, 5618-5621, 5625, 5634, 5648, 5648, 5649, 5662-5664, 5668, 5724-5728, 5751, 5752, 5759, 5761, 5771, 5775, 5785-5787, 5809

Body, whole 2709, 2706, 2826, 2837, 2868, 2145, 2152, 2203, 2228, 2260, 2417, 2681, 2499, 2595, 2671, 2866, 2786, 2796, 2809, 2869, 2881, 2874, 2821, 2887, 4221, 1818, 4263, 4209, 4512, 4567, 4609, 4767, 4983, 4945-4966, 5165, 5211, 5245, 5286, 5344, 5361, 5387, 5400, 5565, 5604, 5700, 5622

Bone 2151, 2187, 2245, 2270, 2301, 2336, 2481, 2506, 2556, 2605, 2645, 4147-4159, 4236, 4252, 4268, 4272, 4279, 4280, 4230, 4281, 4289-4241, 4246, 4248, 4255, 4268, 4260, 4290, 4296, 4298, 4299, 4400, 4402, 4404, 4411, 4424, 4428, 4482, 4495, 4585, 4689, 4786, 4796, 4909, 5167, 5264, 5268, 5300, 5318, 5326, 5327, 5334, 5337, 5347, 5368, 5374, 5383, 5394, 5397, 5402, 5425, 5445

Bone marrow 5461

Brain 2660, 2771, 2779, 2785, 2794, 2845, 2868, 2882, 2888, 2911, 2921, 2935, 2938, 2951, 2952, 2959, 2965, 2967, 2999, 3014, 3021, 3043, 3048, 3054, 3082, 3089, 3081, 3099, 3112, 3162, 3275, 3428, 3430, 3436, 3507, 3523, 3688, 3705, 3719, 3720, 3777, 3822, 3852, 3986, 3978, 3984, 4004, 4011, 4029, 4081, 4042, 4050, 4057, 4062, 4077, 4081, 4087, 4095, 4106, 4119, 4202, 4281-4284, 4270, 4407, 4488, 4587, 4625, 4677, 4700, 4717, 4743, 4828, 4840, 4842, 4845, 4847, 4849, 4851, 4858, 4855, 4857, 4971, 4972, 4990, 4999, 5096, 5117, 5178, 5221, 5272, 5301, 5482, 5486, 5489, 5491, 5501, 5521, 5525, 5532, 5537, 5550, 5559, 5566, 5605, 5629, 5632, 5656, 5675, 5731, 5748, 5755, 5763, 5779, 5780, 5791, 5802, 5820

Caruncles 2284

Diaphragm 2168, 4586, 4718, 5097, 5302

Digestive gland 2298

Digestive tract 4216

Egg, yolk 4268

Eggs 2745, 2755, 2760, 2777, 2780, 2820, 2861, 2906, 2909, 2924-2926, 2940, 2964, 2975-2977, 2981, 2992-2994, 3032, 3037, 3038, 3044, 3091, 3199, 3200, 3210-3220, 3480, 3568, 3569, 3579, 3585, 3586, 3595, 3698, 3699-3700, 3700, 3701, 3717, 3718, 3724-3726, 3750, 3805, 3837, 3842, 3892, 3927-3929, 3952, 3943, 3944, 3945, 3961-3965, 3981, 3982, 4014-4016, 4019, 4025, 4036-4038, 4053, 4055, 4059, 4066, 4072, 4074, 4075, 4078, 4100, 4250, 4251, 4262, 4276, 4277, 4605-4607, 4615, 4628, 4629, 4631, 4648, 4944, 5191, 5214, 5217, 5225, 5241, 5242, 5250, 5254, 5255, 5469, 5492, 5512, 5525, 5548, 5551-5555, 5567, 5575, 5596, 5607-5609, 5611, 5614-5616, 5626, 5627, 5642, 5647, 5649, 5744-5746, 5749, 5750, 5755, 5767-5769, 5772, 5774, 5776, 5777, 5782, 5806, 5807, 5809, 5811-5813, 5817-5819

Eggshell gland 3256, 3260, 3986, 4001

Embryos 3772, 3000, 3424, 3823, 3945, 4060, 4556, 5522, 5630, 5780

Esophagus 4973, 4974, 5000, 5001

Exoskeleton 3545, 3903, 4217, 4218, 4581

Exuvia 4219

Eye 3546, 4275, 4278, 5002, 5003

Fat 5713

Fat body 2851, 3307, 3377, 3587, 4240, 4496, 4238, 4599, 5042, 5155, 5413

Feathers 3001, 3183, 3484, 3551, 3624, 4216, 4224, 4307, 4326, 4372, 4382, 4554, 4599, 4601, 4606, 4613, 4614, 4619, 4620, 4622-4623, 4630, 4637, 4658, 4660, 4662, 4667, 4668, 4781, 5131, 5681, 5703

Fetus 3720, 3721

Food 3703

Gall bladder 3847, 3112, 4744

Gas bladder 2548

Gastrointestinal tract 4775, 4910, 5155

Gills 2659, 2849, 3114, 3204, 3226, 3236, 3238, 3285, 3626, 3675, 3572, 3594, 3611, 3622, 3676, 3679, 3804, 4142, 4220, 4701, 4745, 4782, 4811, 4826, 4830, 4917, 4921, 4977, 4978, 5004, 5005, 5545, 5562, 5580, 5591, 5439, 5443, 5602

Gizzard 3003, 3737, 3752, 3757, 3760, 3625, 4535, 5632

Gonads 2653, 2650, 2298, 2303, 2572, 2656, 4241, 4487, 4537, 4900, 5042, 5156, 5414

Green gland 4221

Gut 4142, 4690, 4215, 5426

Hair 2685, 2690, 2721, 2730, 3110, 3297, 3298, 3451, 3456, 4208, 4268, 5026, 5064, 5072, 5074, 5095, 5132, 5140, 5200, 5278

Head 2653, 2809, 2879, 3606, 4242, 4426, 4428, 4601, 5044, 5157, 5415

Heart 2651, 2908, 2948, 3184, 3118, 3184, 3182, 3202, 3287, 3405, 3524, 3553, 3706, 3715, 3744, 3756, 3760, 3770, 3778, 3826, 3906, 4002, 4120, 4204, 4217, 4285-4287, 4295, 4424, 4508, 4538, 4542, 4546, 4552, 4556, 4561, 4577, 4598, 4622, 4655, 4716, 4737, 4745, 4752, 5008, 5175, 5201, 5241, 5274, 5308, 5322, 5484, 5506, 5524, 5533, 5552, 5576, 5700, 5757, 5764, 5767, 5809

Hepatopancreas 3155, 3207, 3545, 3564, 4214, 4272, 4564, 4575, 4612, 5124, 5202

Integument 2654, 2830, 2950, 3000, 4218, 4220, 4230, 4276, 4277, 4280, 4282, 4283

Intestine 2634, 2640, 2652, 2804, 3122, 3165, 3248, 3247, 3264, 3304, 3452, 3510, 3601, 3639, 3827, 4195, 4235, 4366, 4448, 4459, 4478, 4515, 4590, 4648, 4702, 4720, 4755, 4771, 4881, 4868, 4878, 4877, 4887, 4922, 4979, 4980, 5008, 5007, 5021, 5028, 5075, 5096, 5107, 5137, 5145, 5280, 5804, 5870, 5425, 5504, 5634, 5714

Kidney 2655, 2641, 2648, 2691, 2700, 2782, 2780, 2795, 2798, 2853, 3005, 3070, 3116, 3128, 3135, 3139, 3182-3184, 3186, 3180, 3188-3190, 3194, 3196, 3211, 3212, 3222, 3238, 3241, 3244, 3246, 3260, 3262, 3265, 3268, 3270, 3272, 3276, 3280-3282, 3289, 3308, 3322, 3383, 3328, 3342, 3348, 3361, 3365, 3370, 3389, 3410, 3427, 3452, 3470, 3482, 3500, 3511, 3512, 3518, 3526-3527, 3549, 3557-3559, 3562, 3565, 3577, 3582, 3589, 3590, 3602, 3606, 3615, 3619, 3622, 3631, 3633, 3635, 3639, 3646, 3647, 3670, 3681, 3707, 3739, 3745, 3752, 3759, 3784, 3771, 3779, 3828, 3853, 3912, 4098, 4190, 4205, 4222, 4220, 4231, 4237, 4253, 4260, 4269, 4273, 4288-4292, 4332, 4342, 4348, 4347, 4349, 4359, 4362, 4371, 4381, 4387, 4389, 4397, 4401, 4405, 4405, 4408, 4412, 4413, 4429, 4432, 4444, 4450, 4454, 4459, 4475, 4479, 4485, 4486, 4496, 4516, 4521, 4564, 4591, 4641, 4678, 4686, 4691, 4708, 4721, 4728, 4747, 4756, 4772, 4781, 4784, 4789, 4852, 4868, 4878, 4884, 4886, 4898, 4933, 4943, 4981, 4982, 5006, 5008, 5022, 5029, 5033, 5038, 5076, 5089, 5102, 5108, 5113, 5116, 5125, 5132, 5136, 5144, 5145, 5180, 5260, 5265, 5268, 5275-5277, 5305, 5313, 5328-5330, 5335, 5336, 5340, 5352, 5357, 5371, 5375, 5384, 5396, 5396, 5398, 5403, 5404, 5405, 5427, 5445, 5466, 5505, 5535, 5650, 5695, 5696, 5701, 5715, 5722, 5726

Larvae 5727

Liver 2633, 2636, 2642, 2647, 2650, 2656, 2701, 2713, 2736, 2742, 2752, 2757, 2760, 2765, 2766, 2773, 2781, 2787, 2796, 2801, 2811, 2818, 2837, 2834, 2854, 2867, 2878, 2899, 2902, 2906, 2922, 2926, 2932, 2947, 2960, 2980, 2983, 2986, 2970, 2972, 2974, 2985, 3006, 3015, 3018, 3028, 3080, 3045, 3055, 3060, 3063, 3071, 3090, 3094, 3096, 3106, 3117, 3124, 3126, 3130, 3135-3137, 3167, 3181, 3184, 3191-3193, 3195, 3197, 3198, 3205, 3209, 3212, 3214, 3228, 3243, 3247, 3254-3256, 3261, 3263, 3266, 3269, 3271, 3275, 3277, 3282-3285, 3290, 3304, 3318, 3323, 3325, 3327, 3329, 3334, 3339, 3344, 3349, 3362, 3366, 3371, 3390, 3399, 3403, 3404, 3406, 3407, 3411, 3412, 3414, 3427, 3431, 3433, 3454, 3455, 3477, 3483, 3499, 3496, 3500, 3509, 3512, 3516, 3519, 3529-3530, 3548, 3550, 3553, 3560-3562, 3564, 3566, 3567, 3573, 3576, 3578, 3584, 3588, 3590, 3600, 3603, 3607, 3612, 3613, 3616, 3620, 3624, 3627, 3632, 3634, 3636, 3640, 3648-3653, 3671, 3675, 3677, 3682, 3702, 3708, 3720, 3731, 3740, 3745, 3754, 3756, 3760, 3765, 3772, 3774, 3780, 3829, 3844, 3854, 3906, 3909, 3913, 3987, 3954, 3971, 3979, 3980, 3999, 4005, 4006, 4012, 4018, 4024, 4033, 4035, 4043, 4051, 4068, 4066, 4069, 4079, 4083, 4086, 4091, 4097, 4108, 4112, 4114, 4121, 4132, 4144, 4164, 4180, 4181, 4197, 4206, 4216, 4228, 4227, 4232, 4238, 4254, 4255, 4268-4297, 4333, 4336, 4344, 4345, 4353, 4364, 4366, 4372, 4373, 4382, 4390, 4395, 4409, 4414, 4415, 4434, 4445, 4451, 4455, 4460, 4476, 4486, 4487, 4488, 4497, 4506, 4509, 4513, 4517, 4532, 4537, 4539, 4542, 4551, 4556, 4559, 4562, 4565, 4578, 4592, 4605, 4610, 4611, 4613, 4616, 4618, 4642, 4656, 4662, 4670, 4687, 4692, 4715, 4722, 4732, 4735, 4736, 4748, 4761, 4767, 4784, 4775, 4779, 4785, 4790, 4792, 4796, 4805, 4804, 4809, 4825, 4831, 4833, 4838, 4841, 4843, 4845, 4849, 4850, 4852, 4854, 4859, 4875, 4884, 4874, 4875, 4885, 4888, 4894, 4894, 4899, 4909, 4921, 4927, 4934-4938, 4943, 4948, 4952, 4962, 4964,

5010, 5011, 5033, 5050, 5054, 5065, 5068, 5077, 5080, 5101, 5108, 5112, 5114, 5119, 5122, 5126, 5134, 5136, 5139, 5145, 5149, 5151, 5156, 5192-5197, 5199, 5202, 5222, 5240, 5242, 5249, 5251, 5253, 5261, 5266, 5270, 5278-5280, 5297, 5306, 5320, 5328, 5331-5333, 5336, 5339, 5340, 5349, 5353, 5356, 5358, 5369, 5372, 5378, 5381, 5382, 5385, 5389, 5392, 5396, 5399, 5401, 5402-5408, 5423, 5428, 5433, 5440, 5443, 5447, 5467, 5487, 5490, 5492, 5496, 5506, 5526, 5529, 5534, 5538, 5540, 5548, 5562, 5584, 5605, 5625, 5630, 5654, 5660, 5667, 5677, 5687, 5688, 5702, 5718, 5721, 5734, 5765, 5781, 5788, 5793, 5799, 5804

Lung 3007, 3163, 3408, 3514, 3747, 3766, 3781, 3830, 4199, 4267, 4298, 4550, 4593, 4643, 4723, 5102, 5263, 5307, 5468, 5637, 5689, 5690, 5705

Lymph node 5704

Malpighian tubes 2635, 3211, 3361, 3661, 4244, 4470, 4550, 4903, 5048, 5139, 5417

Mammary gland 3169, 5303

Mantle 3239, 3297, 4527, 4918

Milk 3061, 3087, 3093, 3097, 3712, 3715, 3722, 3725, 3750, 3138, 3170, 3354, 3387, 3401, 3402, 3415, 3456, 3490, 3972, 3973, 3700, 3745, 3782, 3796, 3800, 3935, 4132, 4180, 4207, 4236, 4474, 4499, 4907, 4930, 5062, 5091, 5164, 5174, 5175, 5233, 5255, 5256, 5261, 5309, 5436, 5437, 5490, 5550, 5592, 5717, 5735, 5743, 5745, 5758, 5816

Muscle 2637-2639, 2643-2648, 2648, 2649, 2666, 2666, 2702, 2707, 2709, 2715, 2727-2729, 2737-2743, 2751, 2754, 2774, 2782, 2787, 2790, 2803, 2808, 2813, 2816, 2866, 2864, 2865, 2866-2871, 2875, 2900, 2903, 2906, 2907, 2916, 2918, 2923, 2927, 2929, 2933, 2937, 2952, 2958, 2970, 2986, 3003, 3016, 3018, 3054, 3056, 3040, 3042, 3047, 3056, 3060, 3064, 3072, 3087, 3090, 3098, 3099, 3102, 3106, 3118, 3139-3141, 3143, 3145, 3154, 3171, 3185, 3206, 3208, 3217, 3232, 3257, 3264, 3275, 3286, 3287, 3291, 3298, 3305, 3317, 3324, 3326, 3330, 3340, 3350, 3357, 3366, 3367-3369, 3372, 3373, 3386, 3391, 3405, 3409, 3413, 3423, 3428, 3438, 3439, 3444, 3457, 3464, 3467, 3472, 3474, 3478, 3480, 3486, 3487, 3491, 3497, 3513, 3531, 3532, 3539-3541, 3544, 3548, 3554, 3574, 3575, 3591, 3604, 3614, 3617, 3618, 3621, 3625, 3626, 3630, 3641, 3643, 3667, 3674, 3675, 3690, 3736, 3741, 3742, 3753, 3761, 3767, 3775, 3783, 3803, 3807, 3808, 3831, 3835, 3839, 3840, 3845, 3846, 3855, 3871, 3872, 3877, 3878, 3880, 3882, 3884-3890, 3892, 3896, 3897, 3906, 3914, 3926, 3957, 3960, 3967, 3981, 4000, 4005, 4009, 4013, 4023, 4044, 4052, 4084, 4097, 4084, 4099, 4092, 4099, 4104, 4110, 4113, 4118, 4122, 4123, 4145, 4193, 4199, 4215-4218, 4215, 4219, 4234, 4238-4239, 4239, 4284, 4249, 4257, 4258, 4264, 4299-4301, 4323, 4324, 4337, 4339, 4357, 4360, 4361, 4374, 4382, 4393, 4398, 4399, 4410, 4418, 4417, 4429-4432, 4435-4442, 4448, 4449 4452, 4458-4456, 4461, 4463, 4473, 4477, 4481, 4490, 4496, 4501-4503, 4506, 4510, 4514, 4518-4520, 4523, 4524, 4524, 4535, 4540, 4544, 4545, 4547-4549, 4552, 4553, 4557, 4562, 4563, 4569, 4570-4572, 4575, 4579, 4583, 4594, 4602, 4624, 4617, 4621, 4622, 4627, 4628, 4644, 4646, 4647, 4650, 4653, 4657, 4660, 4665, 4666-4668, 4670-4673, 4680, 4681, 4692, 4693, 4696, 4699-4699, 4706, 4709-4714, 4724, 4740, 4746, 4756, 4765, 4774, 4780, 4782, 4786, 4788, 4799, 4800, 4807, 4812, 4820, 4824, 4860, 4875, 4880, 4881, 4882-4884, 4888-4892, 4894, 4895, 4902, 4905, 4907, 4908, 4910, 4911, 4913, 4915, 4916, 4918, 4923, 4927, 4928, 4931, 4933, 4937, 4941, 4942, 4944, 4946, 4947, 4950, 4952, 4953, 4955, 4956, 4958, 4959, 4961, 4962, 4964, 4965, 4967, 4968, 4969, 4971, 4972, 4974, 4975, 4977, 4978, 4980, 4981, 4983, 4984, 4986, 4987, 4988, 4990, 4991, 4993, 4994, 4995, 4997, 4998, 5000, 5001, 5003, 5004, 5006, 5007, 5009, 5010, 5011, 5033, 5050, 5054, 5065, 5068, 5077, 5080, 5101, 5108, 5112, 5114, 5119, 5122, 5126, 5134, 5136, 5139, 5145, 5149, 5151, 5156, 5192-5197, 5199, 5202, 5222, 5240, 5242, 5249, 5251, 5253, 5261, 5266, 5270, 5278-5280, 5297, 5306, 5320, 5328, 5331-5333, 5336, 5339, 5340, 5349, 5353, 5356, 5358, 5369, 5372, 5378, 5381, 5382, 5385, 5389, 5392, 5396, 5399, 5401, 5402-5408, 5423, 5428, 5433, 5440, 5443, 5447, 5467, 5487, 5490, 5492, 5496, 5506, 5526, 5529, 5534, 5538, 5540, 5548, 5562, 5584, 5605, 5625, 5630, 5654, 5660, 5667, 5677, 5687, 5688, 5702, 5718, 5721, 5734, 5765, 5781, 5788, 5793, 5799, 5804

Lung 3007, 3163, 3408, 3514, 3747, 3766, 3781, 3830, 4199, 4267, 4298, 4550, 4593, 4643, 4723, 5102, 5263, 5307, 5468, 5637, 5689, 5690, 5705

Lymph node 5704

Malpighian tubes 2635, 3211, 3361, 3661, 4244, 4470, 4550, 4903, 5048, 5139, 5417

Mammary gland 3169, 5303

Mantle 3239, 3297, 4527, 4918

Milk 3061, 3087, 3093, 3097, 3712, 3715, 3722, 3725, 3750, 3138, 3170, 3354, 3387, 3401, 3402, 3415, 3456, 3490, 3972, 3973, 3700, 3745, 3782, 3796, 3800, 3935, 4132, 4180, 4207, 4236, 4474, 4499, 4907, 4930, 5062, 5091, 5164, 5174, 5175, 5233, 5255, 5256, 5261, 5309, 5436, 5437, 5490, 5550, 5592, 5717, 5735, 5743, 5745, 5758, 5816

Muscle 2637-2639, 2643-2648, 2648, 2649, 2666, 2666, 2702, 2707, 2709, 2715, 2727-2729, 2737-2743, 2751, 2754, 2774, 2782, 2787, 2790, 2803, 2808, 2813, 2816, 2866, 2864, 2865, 2866-2871, 2875, 2900, 2903, 2906, 2907, 2916, 2918, 2923, 2927,

3092, 3108, 3110, 3115, 3120, 3121, 3141, 3142, 3146, 3147, 3150, 3152, 3153, 3166, 3169-3173, 3183, 3189, 3206, 3223, 3243, 3246, 3260, 3282, 3292, 3293, 3293, 3289-3291, 3294, 3310, 3324, 3346, 3350, 3372, 3396, 3397, 3399, 3402, 3422, 3424, 3429, 3441, 3444, 3469, 3488, 3523, 3527, 3530, 3535, 3539, 3541, 3550, 3557, 3563, 3574, 3576, 3577, 3585, 3606, 3610, 3633, 3641, 3644, 3645, 3655, 3661, 3663, 3673, 3691, 3705, 3718, 3722, 3726, 3766, 3770, 3782, 3784, 3785, 3789, 3794, 3800, 3805, 3821

Nerve 4302, 4303

Opercle 3479, 3626, 4787

Organs 3156, 3227, 3547, 3595, 4325, 5368

Ovary 3172, 3784, 4370, 4376, 5127, 5311, 5470, 5507, 5602, 5608, 5737

Pancreas 3173, 3750, 4304, 4305, 4395, 4725, 5104, 5126, 5313, 5409, 5430, 5506

Placenta 3174, 5313

Rumen 3400

Scales 3356

Shell 3395, 4375, 4420

Shell membrane 2941, 4020

Silk gland 2656, 2312, 3383, 3602, 4245, 4471, 4551, 4904, 5047, 5160, 5418

Skin 2604, 2657, 3119, 3175, 4148, 4491, 4750, 4885, 4911, 4926, 4987, 4988, 5014, 5015, 5247, 5314, 5471, 5710

Spinal cord 4300, 5600

Spleen 3656, 3176, 3459, 3588, 3785, 4308, 4307-4309, 4402, 4598, 4705, 4726, 4741, 4886, 4927, 4980, 4986, 5016, 5017, 5105, 5188, 5304, 5315, 5473, 5626, 5694, 5708, 5780

Stomach 2659, 3177, 3186, 3396, 3488, 3555, 3962, 3975, 4230, 4261, 4282, 4511, 4597, 4727, 4766, 4991, 4992, 5018, 5019, 5106, 5204, 5244, 5316, 5325, 5473

Syphon 3209

Teeth 3341

Testis 3178, 3288, 3907, 4329, 5129, 5317, 5511

Thyroid gland 2655, 4191, 4192, 4194, 5707

Tongue 3786, 5164, 5739

Trachea 2657, 3313, 3383, 3665, 4246, 4472, 4532, 4905, 5048, 5161, 5419

Udder 3787, 5719

Urine 2630, 2632, 2681, 2714, 2715, 2723, 2726, 2734, 2944, 3142, 3215, 3396, 3459, 3492, 3654, 3710, 3751, 3765, 3788, 3863, 4187, 4209, 4262, 4493, 4734, 4802, 4861, 4912, 5053, 5185, 5410, 5477, 5481, 5497, 5705, 5720, 5740

Uropygial gland 2736, 3009, 3045, 3432, 3703, 3732, 3833, 4080, 4545, 5558, 5639, 5651

Uropygial oil 3010, 3833, 5640

Uterus 3695, 3690

Viscera 4371

ACCIDENTAL POISONING 2689-2693, 2730-2734, 2744, 2745, 3179, 3448, 3649, 3654, 3712, 3721, 3795, 4003, 4329, 4598, 4689-4693, 4732, 4800, 4862-4864, 5058, 5059, 5176-5185, 5425-5430, 5549, 5730, 5735-5740, 5815, 5826

ACIDIC DEPOSITION 2659

ACIDIFICATION 4659

ADULTS 1524-1527, 1786, 1891, 1892, 2011, 2012, 2563, 2565, 2578, 2579, 2604, 2611, 2662, 2685-2688, 2696-2698, 2718, 2719, 2762, 2764-2785, 2785, 2786, 2786, 2787, 2787, 2788, 2788-2796, 2806, 2814, 2818, 2820, 2823, 2828, 2831, 2833, 2835, 2860, 2861, 2887-2893, 2898, 2904, 2906, 2907, 2909-2911, 2920-2933, 2935, 2936, 2942-2944, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 2992-2994, 2999, 3013-3021, 3023, 3024, 3043, 3043-3046, 3053-3056, 3058-3064, 3085-3090, 3179, 3199, 3200, 3218-3220, 3255, 3346, 3351, 3392, 3410, 3411, 3413, 3430-3432, 3448, 3523, 3524, 3527, 3530, 3533, 3568, 3569, 3579, 3585, 3586, 3612, 3629, 3630, 3669, 3672, 3685, 3686, 3688-3690, 3701-3703, 3717, 3718, 3724-3726, 3729-3732, 3742-3747, 3749-3751, 3762-3768, 3858-3863, 3873-3875, 3915, 3917, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 3978-3981, 4002-4013, 4015, 4016, 4030-4032, 4053, 4058, 4059, 4061-4067, 4069, 4071, 4072, 4077-4080, 4086-4092, 4108, 4147-4159, 4185-4187, 4190, 4202, 4204-4206, 4208, 4250, 4266, 4276, 4283, 4286, 4291, 4294, 4308, 4328, 4329, 4350, 4351, 4362, 4376, 4377, 4395, 4412, 4414, 4416, 4426, 4433, 4434, 4448, 4483, 4484, 4486, 4488, 4492, 4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4577-4580, 4585-4598, 4601-4604, 4606, 4607, 4615-4617, 4620, 4626, 4629, 4631, 4634, 4649, 4653-4657, 4665, 4668, 4671, 4674, 4694-4696, 4713, 4716-4727, 4942, 4943, 5038-5040, 5051-5054, 5059, 5094-5106, 5121, 5135, 5176-5185, 5245-5247, 5255, 5257, 5272, 5274, 5277, 5280, 5284, 5341, 5342, 5350, 5354, 5355, 5381, 5435, 5436, 5483, 5485-5492, 5498, 5524-5532, 5534-5541, 5551-5555, 5558, 5587, 5588, 5608, 5609, 5626, 5627, 5646, 5647, 5651, 5730, 5735-5740, 5743, 5748, 5755, 5768, 5769, 5774, 5776, 5777, 5817-5819, 5826

AFLATOXINS 3737-3774

AGE 2629, 2792-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 3915, 4093-4098, 4406-4410, 4676-4680, 4736-4741, 5054, 5080, 5116-5120, 5442, 5443, 5657-5661, 5790-5794

AGRICULTURE 2631, 2632, 2689-2693, 2800-2802, 2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3279-3288, 3375, 3392, 3448, 3481-3483, 3523, 3524, 3527, 3530, 3533, 3645, 3647, 3653, 3714, 3715, 3722, 3723, 3734, 3735, 3791, 3793, 3794, 3800, 3801, 3806, 3809, 3815, 3817, 3819, 3838, 3867, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3954, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099-4104, 4123-4128, 4131, 4135-4139, 4202, 4204-4206, 4208, 4235-4238, 4283, 4286, 4291, 4294, 4308, 4411, 4413, 4415, 4464, 4483, 4484, 4486, 4488, 4492, 4685-4687, 4788-4790, 4897, 5037, 5056, 5059, 5084, 5151, 5162, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5272, 5274, 5277, 5280, 5284, 5403, 5405, 5408, 5484, 5494, 5515, 5517, 5519, 5542, 5561-5563, 5566, 5568, 5571, 5573, 5578, 5579, 5582-5584, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5665-5668, 5697-5710, 5751, 5752, 5771, 5773, 5798-5800, 5808, 5826

AIR POLLUTION 2683, 2699, 2736, 3073, 3110, 3121, 3157, 3158, 3319-3321, 3397-3400, 3408, 3410, 3411,

3413, 3440, 3451, 3488, 3514, 3806, 3856, 4199, 4203, 4263, 4265, 4267, 4326, 4327, 4412, 4414, 4416, 4422-4425, 4433, 4434, 4550, 4754, 4760, 4761, 4794-4797, 4942, 4943, 4945-4965, 5025, 5038-5040, 5064, 5073, 5074, 5088, 5140, 5167, 5200, 5258, 5263, 5273, 5295, 5296, 5432-5434, 5747, 5754, 5810, 5814

ALASKA 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

ALGERIA 3693, 3704, 3733, 3857

AMINO ACIDS 4730, 4801, 4802

AMPHIBIANS 3222, 3223, 3361, 3362, 3589, 3590, 4222, 4223, 4450, 4451, 4884, 4885, 5357, 5358

AMPHIPODS 5065-5072, 5452-5459

ANALGESICS 4733, 4734

ANIMAL FEEDS 2662, 2883, 2897, 2911, 2964, 2965, 3044-3050, 3081, 3131, 3132, 3135, 3139, 3279-3288, 3351, 3352, 3375, 3387, 3392, 3448, 3481-3483, 3520, 3523-3525, 3527, 3528, 3530, 3531, 3533, 3645, 3647, 3649, 3653, 3654, 3669, 3672, 3673, 3737-3741, 3752-3755, 3757-3761, 3769-3773, 3910, 3984, 3985, 4140, 4188, 4189, 4202, 4204-4206, 4208, 4235-4238, 4250, 4256, 4283, 4286, 4291, 4294, 4308, 4330, 4333, 4340, 4345, 4411, 4413, 4415, 4447, 4448, 4464, 4474, 4483, 4484, 4486, 4488, 4492, 4494-4498, 4685-4687, 4730, 4732, 4788-4790, 4800-4802, 4816-4818, 4881, 4882, 4897, 4907, 5037, 5057, 5058, 5062, 5063, 5084, 5086, 5131, 5151, 5186-5198, 5255, 5271, 5272, 5274, 5275, 5277, 5278, 5280, 5282, 5284, 5403, 5405, 5408, 5435-5437, 5450, 5451, 5495-5497, 5697-5710, 5721, 5722, 5826

ANIMAL POPULATIONS 2716, 2768, 2769, 2918, 2981, 3034, 3079, 3107, 3108, 3179, 3282, 3285, 3287, 3288, 3333, 3334, 3466, 3580, 3665, 3700, 3804, 3842, 3869, 3876, 3932, 3963, 4003, 4038, 4166, 4173, 4177, 4179, 4329, 4368, 4373, 4375, 4598, 4634, 4778-4780, 4792, 4793, 4798, 4799, 4823, 4824, 4837-4843, 4845-4858, 5059, 5122, 5123, 5176-5185, 5205, 5217, 5248-5253, 5442, 5443, 5512, 5616, 5728, 5730, 5735-5740, 5745, 5750, 5772, 5807, 5812

ANTARCTICA 3073, 3440, 3806, 3856, 5747, 5754, 5810, 5814

ANTIBIOTICS 2628, 2629, 3910, 4160-4163, 5163, 5164, 5234-5239, 5679-5722, 5741-5743, 5824

ANTICOAGULANTS 5728

ANTIHELMINTICS 3392, 4185-4187

ANTIINFLAMMATORY AGENTS 5051-5053

AQUATIC 2631-2649, 2658-2660, 2663-2680, 2682, 2703-2706, 2717-2720, 2735, 2737-2743, 2746-2751, 2753, 2754, 2756-2769, 2775-2777, 2783-2792, 2798-2837, 2842-2859, 2862-2865, 2869-2882, 2884-2894, 2896, 2898-2910, 2912, 2913, 2915, 2917, 2920-2933, 2938, 2939, 2945-2963, 2966-2991, 2995, 2996, 3011-3025, 3027-3029, 3031-3033, 3036-3041, 3043-3047, 3050-3066, 3073-3078, 3080, 3082-3093, 3098-3102, 3108, 3109, 3111-3130, 3144-3147, 3150-3152, 3155-3198, 3204-3212, 3216, 3221-3224, 3228, 3229, 3231, 3234, 3236-3244, 3248, 3250, 3251, 3253-3261, 3265-3278, 3292-3299, 3314-3321, 3325-3331, 3342-3345, 3347-3350, 3355-3357, 3359-3373, 3384-3386, 3388-3391, 3407-3409, 3417-3421, 3426-3434, 3440-3447, 3460-3465, 3467, 3471, 3473-3480, 3484-3487, 3492-3498, 3505-3513, 3515-3519, 3534-3538, 3541, 3542, 3545-

3547, 3549-3567, 3572-3578, 3589-3592, 3596, 3599-3604, 3609, 3611-3628, 3631-3642, 3655, 3664, 3666-3668, 3675-3682, 3687, 3691, 3692, 3694-3703, 3711, 3713-3716, 3719, 3720, 3722, 3723, 3727-3732, 3734-3736, 3789-3794, 3797, 3799-3802, 3806-3819, 3834-3841, 3843-3849, 3856, 3864-3868, 3870-3872, 3879, 3883, 3891, 3892, 3898-3909, 3917-3926, 3930-3942, 3946-3960, 3963, 3967-3972, 3977-3983, 3986-3993, 3995, 3996, 4001-4013, 4017, 4018, 4021-4027, 4030-4052, 4061-4070, 4073-4080, 4085-4092, 4099-4104, 4106-4111, 4116-4118, 4123-4139, 4141-4151, 4153-4159, 4164, 4165, 4167-4172, 4174-4176, 4178, 4180-4183, 4192-4198, 4210, 4213, 4216-4220, 4222-4234, 4247-4249, 4258, 4264, 4265, 4268-4273, 4310-4327, 4329-4349, 4354-4359, 4361, 4378, 4386, 4387, 4392, 4393, 4395-4410, 4417-4432, 4435-4446, 4449-4462, 4473, 4475-4481, 4499, 4500, 4503, 4507-4511, 4514-4524, 4533-4537, 4567-4569, 4572-4574, 4581-4600, 4608, 4610-4614, 4618, 4619, 4622-4625, 4630, 4634, 4647, 4648, 4652, 4653, 4658-4662, 4666, 4667, 4669, 4670, 4676-4682, 4688, 4697-4705, 4714-4728, 4731, 4742-4766, 4770-4775, 4778-4787, 4791-4799, 4803-4809, 4814-4818, 4824-4837, 4844, 4866-4880, 4883-4896, 4906, 4908-4912, 4914, 4916-4927, 4937-4941, 4944-5023, 5026-5035, 5049, 5050, 5056, 5065-5072, 5075-5079, 5094-5120, 5122-5129, 5133, 5134, 5136-5139, 5141-5150, 5152, 5153, 5165, 5166, 5168-5173, 5186-5199, 5206-5213, 5215-5232, 5234-5240, 5245-5253, 5258-5262, 5264-5270, 5285-5288, 5291, 5292, 5295, 5296, 5298-5340, 5345-5349, 5357-5360, 5364, 5367-5373, 5378, 5380-5402, 5411, 5420-5424, 5431-5434, 5438-5447, 5452-5459, 5474-5492, 5494, 5498-5519, 5524-5542, 5547, 5548, 5556-5558, 5560-5566, 5568-5586, 5591, 5593-5601, 5610-5625, 5641-5645, 5648-5651, 5656, 5662-5673, 5724-5727, 5745-5747, 5750-5754, 5759-5761, 5770-5773, 5782-5785, 5795-5800, 5807-5810, 5812-5814, 5823, 5825

ARCTIC 2793-2797, 3067-3073, 3274-3278, 3435-3440, 3637-3641, 3850-3856, 4093-4093, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5747, 5754, 5790-5794, 5810, 5814

ARIZONA 2755, 2934, 3805, 3927, 4014, 4605, 4838-4843, 4845-4858, 5214, 5493, 5542, 5567, 5607, 5744, 5749, 5767, 5806, 5811

ARKANSAS 2696-2700, 2838-2841, 3891, 3892

ASIATIC CLAM 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823

ATLANTIC OCEAN 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4622, 4676-4680, 5116-5120, 5657-5661, 5790-5794

ATMOSPHERE 3073, 3440, 3856, 5747, 5754, 5810, 5814

AUSTRALIA 1545, 1547, 1549, 1721, 1723, 1725, 1802, 1804, 1806, 1847, 1850, 1852, 2092, 2095, 2098, 2187-2189, 2387, 2388, 2390, 2467, 2469, 2471, 2700-2702, 3133, 3136, 3140, 3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3453, 3455, 3457, 3500, 3526, 3529, 3532, 3572-3575, 3581-3584, 3587, 3588, 3611, 3613, 3614, 3627, 3628, 3644, 3652, 3676-3679, 4184, 4190, 4206, 4290, 4296, 4300, 4363, 4364, 4513, 4564-4566, 5082, 5083, 5087, 5089, 5090, 5092, 5276, 5279, 5283, 5345, 5346, 5351-5353, 5356, 5380, 5382, 5391-5393, 5439-5441, 5824

AUTOPSIES 2730-2734, 2747, 2748, 2756-2759, 2763-2766, 2877, 2878, 2939, 2949, 2950, 2970, 2973, 2974, 3448, 3514, 3523, 3524, 3527, 3530, 3533, 3581-3584, 3649, 3651, 3654, 3970, 3971, 4017, 4018, 4023, 4024, 4033-4035, 4199, 4202, 4204-4206, 4208, 4267, 4283, 4286, 4291, 4294, 4308, 4363, 4364, 4380-4382, 4483, 4484, 4486, 4488, 4492, 4537, 4550, 4610, 4611, 4613, 4618, 4732, 5121, 5263, 5272, 5274, 5277, 5280, 5284, 5351-5353, 5826

BALTIC SEA 5186-5198

BATS 2563, 2565, 2604, 2611, 3973-3975, 4266, 5587-5590, 5748, 5755

BEAVERS 2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390

BELGIUM 2797-2799, 2866-2868, 3475-3479, 3622-3626, 3719, 3720, 3727, 4783-4787

BENTHOS 2659, 3128, 3224, 3318, 3517, 3536, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431

BERMUDA 2363-2366, 4810-4813

BIOACCUMULATION 1524-1527, 1541, 1542, 1545, 1547, 1549, 1638, 1654, 1721, 1723, 1725, 1728, 1729, 1731, 1732, 1742-1744, 1750-1752, 1760, 1783, 1786, 1802, 1804, 1806, 1815-1817, 1821, 1836-1838, 1840, 1847, 1850, 1852, 1859, 1860, 1862, 1863, 1870-1872, 1878-1880, 1883, 1891, 1892, 1962, 2011, 2012, 2065-2068, 2086-2089, 2091, 2092, 2094, 2095, 2097-2102, 2126-2128, 2132-2134, 2137, 2163-2166, 2179, 2181, 2182, 2185, 2187-2193, 2226, 2227, 2240, 2242, 2254-2261, 2309-2311, 2317, 2363-2366, 2387, 2388, 2390, 2467, 2469, 2471, 2478, 2479, 2481, 2482, 2488-2490, 2496-2498, 2501, 2563, 2565, 2578, 2579, 2604, 2611, 2628, 2628-2631, 2631, 2632, 2632, 2633, 2633, 2634, 2634, 2635, 2635, 2636, 2636, 2637, 2637-2640, 2640, 2641, 2641, 2642, 2642, 2643, 2646-2648, 2650-2657, 2663-2677, 2680, 2682, 2683, 2685-2688, 2688-2694, 2694, 2695, 2695, 2696, 2696, 2697, 2697, 2698, 2698, 2699, 2699, 2700, 2700, 2701, 2701, 2702, 2702-2707, 2707, 2708, 2708, 2709, 2709-2711, 2711-2713, 2713, 2715, 2718-2720, 2724-2729, 2736, 2744-2749, 2752, 2755-2760, 2762, 2762-2764, 2764, 2765, 2765, 2766, 2766, 2767, 2767-2769, 2769, 2770, 2770, 2771, 2771, 2772, 2772, 2773, 2773, 2774, 2774, 2775, 2775, 2776, 2776, 2777, 2777, 2778, 2778, 2779, 2779, 2780, 2780, 2781, 2781, 2782, 2782, 2783, 2783-2785, 2785, 2786, 2786, 2787, 2787, 2788, 2788, 2789, 2789-2791, 2791, 2792, 2792, 2793, 2793, 2794, 2794, 2795, 2795, 2796, 2796, 2797, 2797-2806, 2806-2809, 2814-2818, 2818-2820, 2820-2823, 2823-2828, 2828-2831, 2831-2833, 2833-2835, 2835-2838, 2838, 2839, 2839, 2840, 2840, 2841, 2841, 2842, 2842, 2843, 2843, 2844, 2844, 2845, 2845, 2846, 2846, 2847, 2847, 2848, 2848, 2849, 2849, 2850, 2850, 2851, 2851, 2852, 2852, 2853, 2853, 2854, 2854, 2855, 2855, 2856, 2856-2874, 2877, 2878, 2880, 2883, 2884, 2887-2893, 2895, 2897, 2897, 2898, 2898, 2899, 2899-2901, 2903, 2904, 2906-2909, 2909-2911, 2911, 2913, 2914, 2916, 2918-2937, 2939, 2940, 2940, 2941, 2941, 2942, 2942, 2943, 2943, 2944, 2944, 2947, 2949-2954, 2956-2960, 2962-2978, 2982, 2983, 2985-2987, 2989, 2991-2993, 2993, 2994, 2994, 2995, 2995-2997, 2997, 2998, 2998-3000, 3000, 3001, 3001, 3002, 3002, 3003, 3003,

3004, 3004, 3005, 3005, 3006, 3006, 3007, 3007, 3008, 3008, 3009, 3009, 3010, 3010, 3011, 3011, 3012, 3012, 3013, 3013, 3014, 3014, 3015, 3015, 3016, 3016, 3017, 3017, 3018, 3018, 3019, 3019, 3020, 3020, 3021, 3021, 3022, 3022, 3023, 3023, 3024, 3024, 3025, 3025, 3026, 3026, 3027, 3027, 3028, 3028, 3029, 3029, 3030, 3030-3035, 3037, 3038, 3042, 3043, 3043-3046, 3048-3050, 3052-3064, 3067-3072, 3076, 3077, 3079-3081, 3085-3091, 3093-3097, 3103-3108, 3110-3126, 3129, 3130, 3133, 3134, 3136-3138, 3140-3144, 3148-3151, 3153-3188, 3190, 3191, 3193-3201, 3203, 3207, 3209-3221, 3228-3250, 3252, 3254, 3255, 3258-3279, 3281, 3282, 3284, 3285, 3287-3314, 3316, 3317, 3319-3325, 3331-3353, 3355, 3356, 3359, 3360, 3364-3367, 3370-3372, 3375-3383, 3392-3398, 3403, 3404, 3406, 3410-3414, 3416, 3422-3425, 3430-3432, 3435-3439, 3448-3451, 3453, 3455, 3457, 3460, 3468-3470, 3472, 3475-3479, 3481-3484, 3488, 3493-3499, 3501-3505, 3510-3513, 3515, 3516, 3518, 3519, 3528, 3524, 3526, 3527, 3529, 3530, 3532-3534, 3536, 3539, 3540, 3543-3557, 3559, 3560, 3562-3569, 3571, 3576-3579, 3581-3586, 3596-3608, 3610, 3612, 3615, 3616, 3619-3626, 3629-3641, 3644, 3645, 3647, 3650-3653, 3655-3664, 3670, 3671, 3674, 3675, 3681-3686, 3688-3690, 3693, 3701-3704, 3712, 3717, 3718, 3721, 3724-3726, 3729-3733, 3742-3747, 3749-3751, 3762-3768, 3775-3788, 3790, 3792, 3795, 3797, 3798, 3802-3808, 3810-3814, 3816, 3818, 3820-3837, 3839-3843, 3847-3855, 3857-3866, 3869, 3870, 3873-3878, 3880-3882, 3884-3897, 3903-3909, 3915-3917, 3927-3929, 3933, 3934, 3936-3939, 3941, 3943-3946, 3961, 3962, 3964-3966, 3970, 3971, 3976, 3978-3981, 3984-3986, 3991, 3992, 3994, 3997-4020, 4023-4025, 4028-4037, 4039, 4040, 4042-4045, 4047, 4048, 4050-4053, 4058-4069, 4071, 4072, 4074, 4075, 4077-4084, 4086-4098, 4105, 4108, 4109, 4112-4115, 4119-4122, 4129, 4130, 4132-4134, 4152, 4164-4187, 4190-4192, 4194-4198, 4202-4206, 4208, 4210-4212, 4214-4221, 4225-4228, 4231-4233, 4235-4247, 4253, 4254, 4257, 4259-4263, 4265, 4266, 4268, 4269, 4272, 4273, 4275, 4276, 4279, 4282, 4283, 4285, 4286, 4289-4291, 4294-4296, 4299, 4300, 4302, 4304, 4306-4308, 4310, 4314-4327, 4329, 4331, 4332, 4334-4339, 4341-4344, 4346-4351, 4353-4356, 4358-4360, 4362-4364, 4376, 4377, 4379-4391, 4394-4397, 4400-4416, 4418-4420, 4422-4429, 4433, 4434, 4443-4447, 4453-4456, 4459-4461, 4464-4472, 4478-4481, 4483, 4484, 4486, 4488, 4492, 4494-4499, 4501, 4502, 4504-4512, 4515-4518, 4521-4523, 4525-4533, 4536-4549, 4551-4566, 4570, 4571, 4573, 4575-4621, 4623-4646, 4648-4651, 4653-4658, 4660-4665, 4668-4680, 4682-4687, 4694-4698, 4706-4713, 4716-4731, 4733-4735, 4742-4804, 4808-4822, 4824-4837, 4866-4882, 4887-4890, 4893-4895, 4897-4905, 4909-4913, 4915-4929, 4931, 4932, 4934-4936, 4942-4944, 5020-5023, 5025, 5028-5030, 5033, 5034, 5037-5048, 5051-5078, 5082, 5083, 5087-5090, 5092, 5094-5120, 5124-5132, 5135-5140, 5143-5145, 5148, 5149, 5151, 5154-5161, 5163, 5164, 5176-5204, 5214, 5218, 5219, 5221-5224, 5226, 5228, 5234-5262, 5264-5266, 5268-5270, 5272-5274, 5276, 5277, 5279, 5280, 5283-5285, 5289, 5290, 5293-5328, 5330, 5331, 5333-5342, 5344, 5347-5355, 5364-5377, 5379, 5381, 5383-5385, 5388-5390, 5394-5401, 5403, 5405, 5408, 5411-5420, 5423, 5424, 5432-5434, 5438, 5442, 5443, 5445-5447, 5450-5459, 5483, 5485-5493, 5495-5511, 5513, 5514, 5516, 5518, 5520-5541, 5543, 5549, 5551-5560, 5564, 5567, 5569, 5570, 5572, 5574-5577, 5580, 5581, 5587, 5588, 5593, 5598, 5600, 5602-5611, 5614, 5615, 5617, 5618, 5620, 5622, 5623, 5625-5642, 5644-5647, 5649, 5651-5655, 5657-5664, 5674-5678, 5711-5720, 5723,

5727, 5729-5744, 5746, 5748, 5749, 5753, 5755, 5759, 5761-5770, 5774, 5776-5797, 5801-5806, 5809, 5811, 5813, 5815, 5817-5822, 5825, 5826

BIOAVAILABILITY 2684

BIOCONCENTRATION 2683, 2684, 2699, 2704-2706, 2717, 2736, 2761, 2784, 2790, 2800-2804, 2807-2809, 2812, 2826, 2836, 2837, 2842-2861, 2901, 2902, 2912, 2935, 2936, 2961, 2992-2994, 3036, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3109, 3110, 3146, 3147, 3152, 3199, 3200, 3218-3220, 3225-3227, 3251, 3397, 3398, 3410, 3411, 3413, 3415, 3418-3421, 3426, 3429, 3434, 3441-3443, 3445-3447, 3451, 3462, 3463, 3465, 3471, 3488, 3536-3538, 3542, 3568, 3569, 3579, 3585, 3586, 3592-3595, 3609, 3685-3692, 3694-3699, 3709, 3711, 3713, 3716-3718, 3724-3726, 3728, 3734, 3789, 3796, 3867, 3902-3907, 3922, 3923, 3926, 3928, 3929, 3931, 3943, 3944, 3948-3950, 3954-3956, 3958, 3959, 3961, 3962, 3964-3966, 3968, 3969, 3988, 3989, 3995, 4015, 4016, 4027, 4053, 4058, 4059, 4073, 4076, 4085, 4101, 4103, 4104, 4106, 4107, 4111, 4116-4118, 4203, 4263, 4264, 4311-4313, 4350, 4351, 4357, 4361, 4362, 4376, 4377, 4392, 4393, 4398, 4399, 4412, 4414, 4416, 4417, 4430-4435, 4565, 4569, 4574, 4606, 4607, 4626, 4629, 4631, 4652, 4805-4807, 4942, 4943, 5025, 5038-5040, 5056, 5064, 5073, 5074, 5088, 5122, 5123, 5140, 5200, 5206, 5273, 5287, 5288, 5292, 5341, 5342, 5350, 5354, 5355, 5361-5363, 5378, 5442, 5443, 5482, 5547, 5548, 5550-5555, 5561-5563, 5582, 5584, 5592, 5595, 5596, 5601, 5608, 5609, 5613, 5626, 5627, 5648, 5650, 5656, 5665, 5667-5673, 5724-5726, 5758, 5768, 5769, 5774, 5776, 5777, 5798-5800, 5816-5819

BIOCONVERSION 4141-4146

BIOINDICATORS 1541, 1542, 1638, 1742-1744, 1760, 1783, 1815-1817, 1821, 1836-1838, 1840, 1870-1872, 1883, 1891, 1892, 2126-2128, 2137, 2259, 2260, 2309-2311, 2317, 2488-2490, 2501, 2694, 2695, 2708, 2770-2774, 2895, 2908, 2909, 2954, 2975, 2977, 2997-3010, 3037, 3038, 3091, 3128, 3144, 3159-3178, 3203, 3224, 3228, 3230, 3235, 3240, 3249, 3252, 3289-3299, 3314, 3316-3318, 3332, 3422-3425, 3460, 3468-3470, 3472, 3484, 3493, 3499, 3501-3505, 3514, 3517, 3534, 3536, 3571, 3592, 3596-3598, 3608, 3610, 3629, 3630, 3655, 3664, 3668, 3820-3833, 3843, 3879, 3883, 3898-3902, 3945, 3991, 3992, 4025, 4036, 4037, 4060, 4074, 4075, 4109, 4199, 4210, 4221, 4247, 4267, 4271, 4310, 4353, 4368, 4373, 4375, 4378, 4379, 4385, 4391, 4394, 4418, 4421, 4499, 4512, 4533, 4536, 4550, 4572, 4582, 4584, 4599, 4600, 4606, 4609, 4612, 4614, 4619, 4623-4625, 4630, 4632, 4633, 4635-4645, 4658, 4669, 4682, 4697, 4698, 4759, 4767-4770, 4775-4777, 4791, 4865, 5263, 5267, 5285, 5298-5317, 5344, 5360, 5364-5367, 5377, 5379, 5411, 5420, 5423, 5424, 5431, 5520-5528, 5598, 5611, 5614, 5615, 5628-5640, 5649, 5778-5782

BIOLOGICAL MONITORING 2634-2649, 2658, 2660, 2682, 2699, 2704-2706, 2708, 2717, 2736-2743, 2747, 2748, 2756-2759, 2761, 2763-2766, 2768, 2770-2774, 2784, 2790, 2793-2797, 2803, 2804, 2807-2809, 2836, 2837, 2875, 2877, 2878, 2901, 2902, 2912, 2939, 2949, 2950, 2961, 2970, 2973, 2974, 2981-2983, 2985-2987, 2989, 2997-3010, 3036, 3041, 3051, 3067-3072, 3082, 3083, 3092, 3099-3101, 3110, 3121-3126, 3129, 3130, 3144, 3146, 3147, 3152, 3155-3178, 3180, 3181, 3190, 3193-3198, 3203, 3211, 3212, 3225-3228, 3240-3244, 3251, 3260, 3261, 3265, 3266, 3268-3279, 3281, 3284, 3292-3305, 3314, 3316, 3317, 3319-3321, 3325, 3335-3341, 3343, 3344, 3347-3350, 3357, 3363-3373, 3375, 3386, 3391, 3397-3400, 3405, 3410, 3411, 3413, 3415,

3418-3426, 3429, 3434-3439, 3441-3443, 3445-3447, 3451, 3460, 3462-3465, 3467, 3471, 3473, 3474, 3480-3484, 3486-3488, 3493, 3499, 3505, 3510-3516, 3518, 3519, 3534, 3537, 3538, 3541, 3542, 3545-3547, 3549, 3550, 3559, 3562-3567, 3571, 3577, 3578, 3591, 3593-3596, 3599-3604, 3609, 3615-3621, 3631-3642, 3645, 3647, 3653, 3655, 3664, 3667, 3675, 3680-3682, 3687, 3691, 3692, 3694-3700, 3709, 3711, 3713, 3716, 3728, 3736, 3789, 3796, 3813, 3814, 3816, 3818, 3820-3833, 3850-3855, 3871, 3879, 3883, 3898-3902, 3910, 3922, 3923, 3926, 3931-3934, 3936-3939, 3941, 3945, 3948-3950, 3955-3960, 3963, 3967-3971, 3988, 3989, 3995, 4017, 4018, 4023, 4024, 4027, 4033-4035, 4038-4040, 4042-4045, 4047, 4048, 4050-4052, 4060, 4073, 4076, 4085, 4093-4098, 4106, 4107, 4110, 4111, 4116-4118, 4129, 4130, 4132-4134, 4195-4199, 4203, 4210, 4213, 4221, 4224-4238, 4247, 4249, 4258, 4263-4265, 4267-4269, 4272, 4273, 4310-4313, 4315, 4317, 4323, 4325-4327, 4331, 4332, 4341, 4343, 4346-4349, 4353, 4357-4359, 4361, 4386, 4387, 4392, 4393, 4396-4418, 4422-4426, 4428-4446, 4449, 4452-4462, 4464, 4473, 4477-4481, 4499, 4503, 4512, 4514-4524, 4533-4535, 4537, 4550, 4568, 4569, 4572, 4574, 4581, 4582, 4601, 4609-4611, 4613, 4618, 4620, 4632-4645, 4647, 4652, 4665-4668, 4671, 4674, 4676-4681, 4685-4688, 4695, 4696, 4713, 4714, 4754-4761, 4767, 4770-4775, 4781, 4782, 4788-4791, 4794-4797, 4805-4807, 4820, 4821, 4838-4843, 4845-4858, 4877-4880, 4883, 4886-4897, 4906, 4908, 4942, 4943, 4957-4965, 5021-5023, 5025-5035, 5037-5040, 5049, 5050, 5064, 5073-5078, 5088, 5107-5110, 5113-5120, 5125-5129, 5137-5153, 5166-5173, 5200, 5217-5219, 5221-5224, 5226, 5245-5247, 5258-5266, 5268-5270, 5278, 5285, 5287, 5288, 5291, 5292, 5295, 5296, 5298-5320, 5327, 5330, 5333-5340, 5344, 5347-5349, 5359, 5361-5364, 5367-5373, 5378, 5382-5390, 5394-5408, 5405, 5408, 5411, 5420, 5422-5424, 5432-5434, 5438, 5444-5447, 5512-5514, 5516, 5518, 5520-5523, 5550, 5569, 5570, 5572, 5585, 5592, 5595, 5596, 5601, 5613, 5616-5618, 5620, 5622, 5623, 5625, 5628-5640, 5648, 5650, 5656-5661, 5669-5673, 5697-5708, 5729, 5731-5734, 5745, 5750, 5758, 5772, 5778-5782, 5790-5794, 5807, 5812, 5816

BIOMAGNIFICATION 2634-2637, 2640-2643, 2646-2648, 2747, 2748, 2756-2759, 2763-2766, 2800-2802, 2877, 2878, 2881, 2886, 2896, 2898, 2905, 2910, 2939, 2949, 2950, 2955, 2970, 2973, 2974, 2984, 2988, 2990, 3074, 3075, 3078, 3122-3124, 3155, 3156, 3243, 3244, 3265, 3266, 3300-3305, 3335-3341, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3545-3547, 3601-3604, 3619-3621, 3714, 3715, 3722, 3723, 3734, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3867, 3868, 3903-3907, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3954, 3970-3972, 3977, 3982, 3983, 3990, 3998, 3996, 4017, 4018, 4021-4024, 4026, 4033-4035, 4041, 4046, 4049, 4070, 4099-4104, 4123-4128, 4131, 4135-4139, 4195-4198, 4225-4226, 4231-4233, 4315, 4317, 4323, 4325, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4536, 4537, 4573, 4581-4584, 4599, 4600, 4608, 4610-4614, 4618, 4619, 4623-4625, 4630, 4658, 4669, 4682, 4697, 4698, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 4957-4965, 5021-5023, 5026-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5122, 5123, 5137-5139, 5143-5145, 5148, 5149, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5259-5262, 5370-5373, 5383-5390, 5484, 5494, 5515, 5517, 5519, 5542, 5561-5563, 5566, 5568, 5571, 5573, 5578, 5579, 5582-5584, 5586, 5591, 5597, 5599, 5613, 5619, 5621, 5624, 5643, 5665-

5668, 5728, 5751, 5752, 5771, 5772, 5798-5800, 5806

BIOPSIES 3651

BIPHENYL COMPOUNDS 2660, 2662, 2747, 2748, 2756-2759, 2762-2766, 2877, 2878, 2939, 2949, 2950, 2970, 2973, 2974, 3970, 3971, 4017, 4018, 4023, 4024, 4032-4035, 4182, 4183, 4537, 4610, 4611, 4613, 4618, 4731, 4753, 4814, 4815, 5825

BIRDS 2011, 2012, 2578, 2579, 2688-2700, 2744, 2745, 2747, 2748, 2755-2759, 2762-2766, 2768, 2777, 2818-2838, 2838, 2839, 2839, 2840, 2840, 2841, 2841-2856, 2860, 2861, 2877, 2878, 2881, 2883, 2884, 2886-2893, 2896, 2897, 2899, 2902-2909, 2909, 2910, 2910, 2911, 2911, 2918, 2919-2936, 2939-2941, 2949-2956, 2958-2960, 2962-2977, 2981-2991, 2991, 2992, 2992-2995, 2999, 3018-3024, 3027-3029, 3031, 3033, 3037, 3038, 3043, 3048, 3049, 3053-3056, 3058-3064, 3074-3078, 3081, 3085-3091, 3093, 3103-3105, 3125, 3126, 3129, 3130, 3180-3200, 3211, 3212, 3218-3220, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3407-3409, 3494-3498, 3506-3509, 3515, 3516, 3518, 3519, 3549-3569, 3577-3579, 3585, 3586, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 3685, 3686, 3688-3690, 3700, 3714, 3715, 3717, 3718, 3722-3726, 3735, 3791, 3793, 3794, 3800, 3801, 3805, 3809, 3813-3819, 3837, 3838, 3843, 3868, 3879, 3883, 3898-3902, 3915, 3918-3920, 3924, 3925, 3927-3930, 3932-3944, 3946, 3947, 3951-3953, 3961-3966, 3970-3972, 3978-3983, 3990-3994, 3996-4000, 4002, 4004-4026, 4028-4059, 4061-4072, 4074, 4075, 4081-4084, 4086-4092, 4099, 4100, 4102, 4105, 4108, 4109, 4119-4139, 4147-4162, 4216-4220, 4268, 4269, 4272, 4278, 4328, 4331, 4332, 4334-4339, 4341-4344, 4346-4351, 4358, 4359, 4362, 4365-4377, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 4507-4511, 4536, 4537, 4573, 4583, 4584, 4599-4608, 4610-4614, 4618-4620, 4623-4626, 4629-4631, 4634, 4648, 4658, 4665, 4668, 4669, 4671, 4674, 4682, 4689-4693, 4695-4698, 4713, 4762-4766, 4838-4843, 4845-4859, 4944-4956, 5054, 5062, 5063, 5186-5198, 5201-5204, 5207-5210, 5212-5232, 5241-5244, 5264-5266, 5268-5270, 5318-5342, 5347-5350, 5354, 5355, 5368, 5369, 5383-5385, 5394-5401, 5425-5430, 5438, 5445-5447, 5484-5494, 5498, 5512-5519, 5524-5543, 5551-5555, 5559, 5566-5573, 5575, 5578, 5579, 5583, 5586, 5591, 5597-5599, 5602-5609, 5611, 5612, 5614-5627, 5642, 5643, 5646, 5647, 5649, 5652-5655, 5666, 5674-5678, 5744-5746, 5749-5753, 5762-5769, 5771-5774, 5776, 5777, 5783, 5786-5789, 5801-5809, 5811-5813, 5817-5821

BLUE CRABS 2704-2706, 2717, 3146, 3147, 3152, 3251, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 4311-4313, 4393, 4568, 4569, 4574, 4652, 5287, 5288, 5292, 5378

BONE DISEASES 3358, 3581-3584, 4251, 4252, 4255, 4363, 4364, 5351-5353

BROMINATED HYDROCARBONS 2662-2677, 2749, 2760, 2762, 2767, 2775-2777, 2783, 2789, 2791, 2792, 2880, 2957, 2978, 3011, 3012, 3022, 3025, 3032, 3050, 3052, 3057, 3080, 3790, 3792, 3810-3812, 3834, 3836, 3837, 3841, 3847-3849, 3870, 3946, 4068, 4165, 4167-4172, 4174-4176, 4178, 4648, 4944, 5228, 5450, 5451, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

BROMINE ORGANIC COMPOUNDS 2662-2677, 2749, 2760, 2762, 2767, 2775-2777, 2783, 2789, 2791, 2792, 2812, 2826, 2880, 2957, 2978, 3011, 3012, 3022, 3025, 3032, 3050, 3052, 3057, 3080, 3109, 3790, 3792, 3810-3812, 3834, 3836, 3837, 3841, 3847-

3849, 3870, 3946, 4068, 4165, 4167-4172, 4174-4176, 4178, 4648, 4944, 5206, 5228, 5462, 5533, 5547, 5548, 5575, 5642, 5724-5726, 5746, 5753, 5783, 5809, 5813

BUFFALO 5679

CALIFORNIA 1654, 1962, 2630, 2755, 2914, 2934, 2940, 2941, 3353, 3536, 3803, 3805, 3903-3907, 3927, 4014, 4019, 4020, 4054-4057, 4305, 4860, 4861, 4865, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

CANADA 2633-2637, 2640-2643, 2646-2648, 2746, 2761, 2784, 2790, 2793-2797, 2803, 2804, 2806-2809, 2813, 2814, 2818, 2820, 2823, 2826, 2828, 2831, 2833, 2835, 2940, 2941, 2961, 3041, 3043, 3044, 3051, 3067-3072, 3082, 3083, 3092, 3099-3101, 3109, 3122-3124, 3201, 3243, 3244, 3262-3266, 3274-3278, 3347-3350, 3364-3367, 3370-3372, 3388-3390, 3421, 3429, 3434-3439, 3441-3443, 3445-3447, 3449, 3450, 3510-3513, 3522, 3601-3604, 3619-3621, 3637-3641, 3649, 3654, 3687, 3691, 3692, 3694-3699, 3705-3708, 3710, 3850-3855, 3917, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4019, 4020, 4027, 4076, 4085, 4093-4098, 4106, 4107, 4111, 4116-4118, 4152, 4195-4198, 4225-4228, 4231-4233, 4274, 4281, 4288, 4293, 4406-4410, 4443-4446, 4453-4456, 4459-4461, 4475, 4476, 4478-4481, 4515-4518, 4521-4523, 4661, 4662, 4676-4680, 4728, 4732, 4755-4758, 4771-4774, 4781, 4782, 4800, 4820, 4821, 4844, 4867-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5058, 5075-5078, 5086, 5107-5120, 5133-5135, 5137-5139, 5142-5145, 5148, 5149, 5186-5198, 5206, 5259-5262, 5370-5373, 5388-5390, 5482, 5483, 5547, 5548, 5613, 5650, 5656-5661, 5669-5673, 5697-5708, 5724-5726, 5729, 5731-5734, 5790-5794

CARCINOGEN 2842-2859

CAROTENOIDS 5255

CATTLE 1524-1527, 1545, 1547, 1549, 1721, 1723, 1725, 1802, 1804, 1806, 1847, 1850, 1852, 2086-2089, 2091, 2092, 2094, 2095, 2097-2102, 2187-2189, 2387, 2388, 2390, 2467, 2469, 2471, 2628, 2629, 2661, 2683, 2685-2693, 2699-2702, 2730-2736, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 3044, 3110, 3131-3143, 3213-3215, 3322-3324, 3351-3354, 3397, 3398, 3401, 3402, 3415, 3451-3459, 3488-3492, 3514, 3520-3533, 3643, 3705-3710, 3742-3751, 3762-3768, 3775-3788, 3795, 3796, 3911-3914, 3984, 3985, 4140, 4184, 4188, 4189, 4199-4209, 4263, 4267, 4274-4309, 4447, 4448, 4482-4493, 4550, 4564-4566, 4736-4741, 4800, 4819, 4862-4864, 4881, 4930, 4933, 5024, 5025, 5051-5053, 5057, 5058, 5060, 5064, 5073, 5074, 5080-5082, 5085-5092, 5140, 5163, 5164, 5174-5185, 5200, 5233, 5263, 5271-5284, 5448, 5449, 5495-5497, 5549, 5550, 5592, 5680-5696, 5730, 5735-5743, 5756-5758, 5775, 5815, 5816

CHAMOIS 3403, 3404, 3406, 3412, 3414, 4735, 4928, 4929, 4931, 4932, 4934-4936

CHELATING AGENTS 3649, 3654, 4732

CHESAPEAKE BAY 2704-2706, 2717, 2901, 2902, 2912, 3036, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311-4313, 4393, 4566, 4569, 4574, 4652, 5287, 5288, 5292, 5378, 5595, 5596, 5601, 5648

CHICKENS 2697, 3134, 3137, 3138, 3141-3143, 3213-3215, 3322-3324, 3355, 3356, 3359, 3360, 3403, 3404, 3406, 3412, 3414, 3449, 3450, 3737-3741, 3752-3755, 3757-3761, 3769-3773, 3986, 4001, 4494-4498, 4735,

4820, 4821, 4882, 4928, 4929, 4931, 4932, 4934-4936, 5093, 5450, 5451, 5460-5473, 5709, 5710, 5729, 5731-5734

CHIRONOMIDS 2684, 2898

CHLORINATED HYDROCARBONS 2663-2677, 2696-2698, 2747-2749, 2755-2760, 2762-2767, 2769, 2775-2777, 2783, 2789, 2791, 2792, 2876-2880, 2882, 2884, 2885, 2887-2894, 2899, 2903, 2904, 2906-2909, 2913, 2915, 2917, 2919-2934, 2938, 2939, 2945, 2946, 2948-2954, 2956-2960, 2962, 2963, 2966-2980, 2991, 2995, 2996, 3011-3025, 3027-3029, 3031-3033, 3037, 3038, 3048-3050, 3052-3065, 3076, 3077, 3080, 3084-3091, 3093, 3102-3106, 3108, 3415, 3709, 3790, 3792, 3795, 3796, 3805, 3810-3812, 3834, 3836, 3837, 3841, 3843, 3847-3849, 3858-3863, 3870, 3873-3875, 3927, 3946, 3970, 3971, 3976, 3978-3981, 3991, 3992, 3994, 3997-4000, 4002, 4004-4014, 4017, 4018, 4023-4025, 4028-4037, 4061-4069, 4074, 4075, 4081-4084, 4086-4092, 4105, 4108, 4109, 4119-4122, 4165, 4167-4172, 4174-4176, 4178, 4537, 4605, 4610, 4611, 4613, 4618, 4648, 4824, 4837, 4944-4956, 5186-5198, 5214, 5228, 5485-5493, 5498-5511, 5524-5541, 5543, 5549, 5550, 5559, 5567, 5575, 5592, 5598, 5602-5607, 5611, 5614, 5615, 5642, 5649, 5652-5655, 5674-5678, 5744, 5746, 5749, 5753, 5758, 5762-5767, 5783, 5786-5789, 5801-5806, 5809, 5811, 5813, 5815, 5816, 5820, 5821

CHLORINE ORGANIC COMPOUNDS 2663-2677, 2749, 2752, 2755, 2760-2762, 2767-2777, 2783, 2784, 2789-2797, 2797-2800, 2800, 2801, 2801, 2802, 2802, 2803, 2803, 2804, 2804-2806, 2806, 2807, 2807-2809, 2812, 2814, 2818, 2820, 2823, 2826, 2828, 2831, 2833, 2835, 2862-2876, 2879-2894, 2896, 2897, 2899, 2901-2913, 2915, 2917, 2919-2934, 2938, 2940, 2941, 2945, 2946, 2948, 2951-2969, 2971, 2972, 2975-2991, 2995-3002, 3002, 3003, 3003, 3004, 3004, 3005, 3005, 3006, 3006, 3007, 3007, 3008, 3008, 3009, 3009, 3010, 3010, 3011, 3011, 3012, 3012, 3013, 3013, 3014, 3014, 3015, 3015, 3016, 3016, 3017, 3017, 3018, 3018-3025, 3027-3029, 3031, 3031, 3032, 3032, 3033, 3033-3036, 3036, 3037, 3037, 3038, 3038-3041, 3041, 3042, 3048-3065, 3067-3078, 3080-3093, 3099-3106, 3108, 3109, 3416, 3418-3426, 3429, 3434-3443, 3445-3447, 3684, 3687, 3691, 3692, 3694-3700, 3711, 3713-3716, 3722, 3723, 3726, 3734-3736, 3790-3794, 3797, 3798, 3800-3802, 3805, 3807-3841, 3843, 3847-3856, 3858-3868, 3870, 3871, 3873-3875, 3877-3902, 3917-3920, 3922-3927, 3930-3942, 3945-3960, 3963, 3967-3969, 3972, 3977-3983, 3988-3993, 3995-4000, 4002, 4004-4014, 4019-4022, 4025-4027, 4030-4032, 4036-4052, 4054-4057, 4060-4070, 4073-4076, 4081-4104, 4106-4111, 4116-4139, 4165, 4167-4172, 4174-4176, 4178, 4605, 4632, 4633, 4635-4645, 4648, 4822, 4824, 4837, 4913, 4915, 4944-4965, 5186-5198, 5206-5210, 5212-5232, 5234-5239, 5482-5494, 5498-5543, 5547, 5548, 5556, 5557, 5559-5564, 5566-5586, 5591, 5593, 5595-5607, 5610-5625, 5628-5645, 5648-5650, 5652-5678, 5724-5727, 5744-5747, 5749-5754, 5756, 5757, 5759, 5761-5767, 5770-5773, 5775, 5778-5814, 5820, 5821

CHOLINESTERASE ACTIVITY 4838-4843, 4845-4858, 4862-4864

CLAMS 2704-2706, 2717, 2901, 2902, 2912, 3036, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3536-3538, 3542, 3609, 3711-3713, 3716, 3721, 3723, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311-4313, 4393, 4568, 4569, 4574, 4652, 5065-5072, 5287, 5288, 5292, 5378, 5452-5459, 5595, 5596, 5601, 5648

COAL 3225-3227, 3593-3595, 5122, 5123, 5361-5363

COLORADO 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5245-5247, 5512, 5616, 5745, 5750, 5772, 5807, 5812

COLOSTRUM 3045-3050, 3387, 3673, 4256, 4474, 4907, 5437

COMPARATIVE EVALUATIONS 2806, 2814, 2818, 2820, 2823, 2828, 2831, 2833, 2835, 2887-2893, 2904, 2906, 2907, 2920-2933, 2940, 2941, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 2991, 2992, 3013-3021, 3023, 3024, 3039, 3040, 3047, 3053-3056, 3058-3064, 3085-3090, 3098, 3127, 3131, 3132, 3135, 3139, 3374, 3427, 3428, 3433, 3444, 3520, 3522, 3525, 3528, 3531, 3756, 3774, 3844-3846, 3872, 3917, 3976, 3978-3981, 3994, 4002, 4004-4013, 4019, 4020, 4028-4032, 4061-4067, 4069, 4086-4092, 4105, 4108, 4140, 4251, 4252, 4255, 4270, 4278, 4280, 4284, 4287, 4292, 4297, 4298, 4301, 4303, 4305, 4309, 4365, 4366, 4463, 4736-4741, 5036, 5081, 5091, 5245-5247, 5271, 5275, 5278, 5282, 5483, 5485-5492, 5498, 5524-5532, 5534-5541, 5680, 5682, 5685, 5687, 5689, 5691, 5692, 5694, 5695

CONNECTICUT 2947, 3209, 3315, 3485, 3576, 3666, 4248, 5136, 5421

CONSUMER EXPOSURE 5697-5708

CRABS 2901, 2902, 2912, 3036, 3418-3420, 3426, 3711, 3713, 3716, 3728, 3903-3907, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 5595, 5596, 5601, 5648

CRAYFISH 2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3155, 3156, 3545-3547, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099, 4100, 4102, 4123-4128, 4131, 4135-4139, 4314-4325, 4581, 4582, 5065-5072, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5452-5459, 5484, 5494, 5515, 5517, 5519, 5542, 5566, 5568, 5571, 5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5666, 5751, 5752, 5771, 5773, 5808

CROP DUSTING 4838-4843, 4845-4858

CRUSTACEANS 1728, 1729, 1731, 1732, 1859, 1860, 1862, 1863, 2065-2068, 2163-2166, 2190-2193, 2478, 2479, 2481, 2482, 2707, 2709, 2727-2729, 2762, 2764-2796, 2862-2865, 2869-2874, 2897-2901, 2916, 2937, 2993-2998, 3026, 3030, 3035, 3042, 3148, 3149, 3153, 3154, 3539, 3540, 3543, 3544, 3797, 3802, 3807, 3808, 3835, 3839, 3840, 3864-3866, 4211, 4212, 4214, 4215, 4501, 4502, 4504, 4505, 4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4570, 4571, 4575-4580, 4615-4617, 4649, 4654-4657, 4694, 5289, 5290, 5293, 5294, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5600, 5610, 5641, 5644, 5645, 5662-5664, 5759, 5761, 5770, 5784, 5785, 5795-5797

DEER 3358, 3399, 3400, 3403-3406, 3412, 3414, 4735, 4928, 4929, 4931, 4932, 4934-4936, 5167

DEER MICE 4380-4382

DELAWARE 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

DELIBERATE EXPOSURE 2628-2632, 2650-2657, 2662, 2678, 2679, 2681, 2696-2698, 2710-2716, 2718-2726, 2730-2734, 2744-2746, 2769, 2812, 2826, 2836, 2837, 2842-2859, 2883, 2897, 2911, 2942-2944, 2964, 2965, 3081, 3108, 3109, 3111-3120,

3131, 3132, 3135, 3139, 3179, 3187-3189, 3191, 3192, 3210, 3216, 3222, 3223, 3225-3227, 3236-3239, 3250, 3255, 3279-3291, 3306-3313, 3333, 3334, 3351, 3352, 3354-3356, 3358-3362, 3374-3385, 3388-3390, 3392-3396, 3407-3409, 3448-3450, 3452, 3454, 3456, 3458, 3459, 3466, 3475-3479, 3481-3483, 3489-3492, 3506-3509, 3520-3525, 3527, 3528, 3530, 3531, 3533, 3536, 3556-3558, 3560, 3561, 3580, 3589, 3590, 3593-3595, 3612, 3622-3626, 3643-3647, 3649-3654, 3656-3663, 3665, 3669, 3672, 3705-3708, 3710, 3712, 3719-3721, 3727, 3737-3774, 3789, 3903-3907, 3910-3915, 3976, 3984-3986, 3994, 4001, 4003, 4028, 4029, 4054-4057, 4105, 4140-4146, 4160-4163, 4184-4190, 4193, 4200-4202, 4204-4209, 4222, 4223, 4235-4246, 4250-4252, 4255, 4259-4262, 4278, 4280, 4283, 4284, 4286, 4287, 4291, 4292, 4294, 4297, 4298, 4301, 4303, 4305, 4308, 4309, 4314, 4316, 4318-4322, 4324, 4329, 4330, 4333, 4339, 4340, 4342, 4344, 4345, 4354-4356, 4368, 4373, 4375, 4395, 4411, 4413, 4415, 4419, 4420, 4427, 4447, 4448, 4450, 4451, 4463-4472, 4475, 4476, 4482-4498, 4525-4532, 4598, 4653, 4661, 4662, 4685-4687, 4699-4705, 4715, 4728-4730, 4732-4734, 4736-4751, 4770, 4775, 4783-4790, 4800-4802, 4816-4819, 4823-4858, 4860, 4861, 4865, 4866, 4881, 4882, 4884, 4885, 4897-4905, 4914, 4916-4927, 4937-4941, 4966-5020, 5024, 5036, 5037, 5041-5048, 5051-5054, 5056-5060, 5062, 5063, 5065-5072, 5079-5085, 5087, 5091, 5093, 5111, 5112, 5121, 5130-5135, 5151, 5154-5164, 5176-5185, 5205, 5206, 5233, 5245-5247, 5255, 5257, 5271, 5272, 5274, 5275, 5277, 5278, 5280-5282, 5284, 5326, 5328, 5329, 5331, 5332, 5357, 5358, 5361-5363, 5381, 5403-5405, 5407-5410, 5412-5419, 5435, 5436, 5448-5482, 5495-5497, 5499-5511, 5547, 5548, 5589, 5590, 5679, 5681-5691, 5693, 5694, 5696-5728, 5730, 5735-5743, 5824, 5826

DENMARK 4426

DETOXIFICATION 2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4819, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390

DIETS 2634-2637, 2637-2640, 2640, 2641, 2641, 2642, 2642, 2643, 2646-2648, 2662, 2696-2698, 2701-2705, 2747, 2748, 2756-2759, 2763-2766, 2877, 2878, 2939, 2942-2944, 2949, 2950, 2970, 2973, 2974, 2982, 2983, 2985-2987, 2989, 2991, 2992, 3043-3050, 3122-3126, 3129-3132, 3135, 3139, 3180, 3181, 3187, 3188, 3190, 3191, 3193-3198, 3211, 3212, 3241-3244, 3260, 3261, 3265, 3266, 3268-3273, 3289-3291, 3300-3305, 3325, 3335-3341, 3343, 3344, 3347-3351, 3354, 3364-3367, 3370-3372, 3374, 3387-3390, 3448, 3500, 3510-3513, 3515, 3516, 3518-3520, 3523-3525, 3527, 3528, 3530, 3531, 3533, 3549, 3550, 3556, 3557, 3559, 3560, 3562-3567, 3577, 3578, 3587, 3588, 3599-3604, 3615, 3616, 3619-3621, 3631-3636, 3649, 3651, 3654, 3669-3675, 3681, 3682, 3742-3751, 3762-3768, 3813, 3814, 3816, 3818, 3910, 3933, 3934, 3936-3939, 3941, 3970, 3971, 3976, 3984, 3985, 3994, 4017, 4018, 4023, 4024, 4028, 4029, 4033-4035, 4039, 4040, 4042-4045, 4047, 4048, 4050-4052, 4105, 4129, 4130, 4132-4134, 4152, 4195-4198, 4202, 4204-4206, 4208, 4225-4228, 4231-4233, 4250, 4253, 4254, 4256, 4257, 4268, 4269, 4272, 4273, 4278, 4280, 4283, 4284, 4286, 4287, 4291, 4292, 4294, 4297, 4298, 4301, 4303, 4305, 4308, 4309, 4331, 4332, 4339, 4341-4344,

4346-4349, 4358, 4359, 4365-4367, 4369-4372, 4374, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 4443-4446, 4453-4456, 4459-4461, 4463, 4474-4476, 4478-4481, 4483, 4484, 4486, 4488, 4492, 4513, 4515-4518, 4521-4523, 4537, 4610, 4611, 4613, 4618, 4646, 4663, 4673, 4675, 4706, 4732, 4736-4741, 4755-4758, 4771-4774, 4781, 4782, 4816-4818, 4877-4880, 4882, 4887-4890, 4893-4895, 4907, 5021-5024, 5028-5030, 5033, 5034, 5036, 5075-5080, 5085, 5086, 5107-5110, 5113-5115, 5121, 5131, 5133, 5134, 5137-5139, 5143-5145, 5148, 5149, 5218, 5219, 5221-5224, 5226, 5259-5262, 5264-5266, 5268-5272, 5274, 5275, 5277, 5278, 5280-5282, 5284, 5318-5320, 5326-5328, 5330, 5331, 5333-5340, 5347-5349, 5356, 5368-5373, 5383-5385, 5388-5390, 5394-5401, 5435-5438, 5445-5447, 5495-5497, 5513, 5514, 5516, 5518, 5569, 5570, 5572, 5617, 5618, 5620, 5622, 5623, 5625, 5709, 5710, 5826

DIGESTIVE GLAND 3228, 3292-3299, 3596, 3655, 5364, 5411

DIOXANES 3891, 3892

DIURETICS 2681

DOLPHINS 3159-3178, 3240, 3316, 3317, 4585-4597, 4716-4727, 5094-5106, 5298-5317, 5367, 5423, 5424

DRINKING WATER 5176-5185, 5730, 5735-5740

DRUG ABUSE 2681

DRUG THERAPY 2628, 3352, 3392, 3644, 3652, 3683, 3916, 4185-4187, 4881, 5051-5053, 5055, 5060, 5061, 5163, 5164, 5257, 5711-5722, 5741-5743, 5822

DRUGS 2628, 2629, 2681, 3352, 3392-3396, 3521, 3643, 3644, 3646, 3652, 3683, 3910-3914, 3916, 4140, 4160-4163, 4185-4189, 4259-4262, 4581, 5051-5053, 5055, 5060, 5061, 5081-5083, 5087, 5091, 5093, 5135, 5163, 5164, 5257, 5404, 5407, 5409, 5410, 5448, 5449, 5679, 5681-5691, 5693, 5694, 5696, 5709-5722, 5741-5743, 5822, 5824

DUCKS 3125, 3126, 3129, 3130, 3180, 3181, 3189, 3190, 3192-3198, 3211, 3212, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3515, 3516, 3518, 3519, 3549, 3550, 3558, 3559, 3561-3567, 3577, 3578, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 4193, 4268, 4269, 4272, 4273, 4331, 4332, 4341, 4343, 4346-4349, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 5264-5266, 5268-5270, 5318-5320, 5327, 5329, 5330, 5332-5340, 5347-5349, 5368, 5369, 5383-5385, 5394-5401, 5438, 5445-5447

DUST 3514, 4199, 4267, 4550, 5263

EAGLES 2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

EARTHWORMS 2708, 3201, 3203, 3262-3264, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5065-5072, 5344, 5452-5459

EELS 2876, 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102, 4354-4356, 4419, 4420

EGYPT 2875, 3736, 3871, 3957, 3960, 3967, 4110, 5585

EMBRYOS 2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782

ENGLAND 3300-3305, 3335-3341

ENVIRONMENTAL EXPOSURE 2633-2649, 2658-2660, 2663-2677, 2680, 2682-2684, 2689-2693, 2699, 2703-2706, 2708, 2717, 2735-2743, 2747-2751, 2753-2768, 2775-2777, 2783-2811, 2813-2825, 2827-2835, 2860-2865, 2869-2882, 2884-2894, 2896, 2899-2910, 2912, 2913, 2915, 2917-2936, 2938-2941, 2945-2963, 2966-2996, 3011-3025, 3027-3029, 3031-3034, 3036-3041, 3043-3080, 3082-3093, 3098-3107, 3110-3119, 3122-3130, 3144-3147, 3150-3152, 3155, 3156, 3159-3178, 3180-3186, 3190, 3193-3209, 3211, 3212, 3218-3221, 3224-3229, 3231, 3234, 3240-3244, 3248, 3250, 3251, 3253, 3254, 3256-3281, 3283, 3284, 3286, 3292-3305, 3314-3318, 3325-3331, 3333-3345, 3347-3350, 3353, 3354, 3357, 3363-3373, 3375, 3386, 3391, 3397-3400, 3402-3406, 3410-3415, 3417-3421, 3426-3447, 3451, 3460-3465, 3467, 3471, 3473-3488, 3493-3500, 3505, 3510-3519, 3534-3538, 3541, 3542, 3545-3547, 3549-3555, 3559, 3562-3579, 3581-3588, 3591-3596, 3599-3604, 3609, 3611, 3613-3628, 3631-3642, 3645, 3647, 3648, 3653, 3655, 3664-3668, 3675-3682, 3685-3704, 3709, 3711, 3713-3718, 3722-3726, 3728-3736, 3775-3788, 3790-3797, 3799-3802, 3804-3819, 3834-3857, 3864-3872, 3876-3909, 3917-3944, 3946-3975, 3977-3983, 3987-3993, 3995-4000, 4002, 4004-4027, 4030-4053, 4058, 4059, 4061-4070, 4073-4104, 4106-4111, 4116-4139, 4147-4151, 4153-4159, 4164-4183, 4190-4199, 4203, 4210, 4213, 4216-4221, 4224-4238, 4247-4249, 4258, 4263, 4264, 4266-4274, 4276, 4277, 4281, 4288, 4293, 4310-4325, 4330-4338, 4340, 4341, 4343, 4345-4359, 4361-4364, 4367, 4369-4372, 4374, 4376-4378, 4380-4382, 4386, 4387, 4392, 4393, 4396-4421, 4426, 4428-4446, 4449, 4452-4462, 4464, 4473, 4477-4481, 4499, 4500, 4503, 4507-4524, 4533-4537, 4550, 4567-4569, 4572-4574, 4581-4597, 4599-4601, 4605-4614, 4618-4620, 4622-4626, 4629-4631, 4634, 4647, 4648, 4652, 4658-4662, 4665-4671, 4674, 4676-4682, 4685-4688, 4695-4698, 4713, 4714, 4716-4727, 4731, 4735, 4742-4753, 4755-4759, 4762-4767, 4771-4774, 4778-4793, 4798, 4799, 4803-4809, 4814, 4815, 4820, 4821, 4838-4843, 4845-4859, 4867-4880, 4883, 4886-4897, 4906, 4908-4912, 4928, 4929, 4931, 4932, 4934-4936, 4942-4965, 5021-5023, 5025-5035, 5037-5040, 5049, 5050, 5056, 5064, 5073-5078, 5088, 5094-5120, 5122-5129, 5136-5153, 5165-5174, 5186-5200, 5207-5232, 5234-5240, 5245-5253, 5259-5270, 5273, 5281, 5285-5288, 5291, 5292, 5298-5325, 5327, 5330, 5333-5356, 5359-5364, 5367-5373, 5378, 5380, 5382-5403, 5405, 5406, 5408, 5411, 5420-5424, 5431, 5438-5447, 5483-5494, 5498, 5512-5519, 5524-5543, 5549-5586, 5591-5627, 5641-5645, 5648-5678, 5728, 5729, 5731-5734, 5744-5747, 5749-5754, 5758-5774, 5776, 5777, 5783-5821, 5823, 5825

ENZYMES 3289-3291, 3649, 3654, 4732, 5079

ERYTHROMYCINS 3910

FALCONS 2940, 2941, 4019, 4020

FALLOUT 3399, 3400, 3403-3406, 3410-3414, 3806, 4412, 4414, 4416, 4433, 4434, 4735, 4928, 4929, 4931, 4932, 4934-4936, 4942, 4943, 5038-5040, 5167

FARMS 3279, 3281, 3282, 3284, 3285, 3287, 3288, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4276, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4800, 4897, 5037, 5058, 5151, 5403, 5405, 5408, 5728, 5743

FATHEAD MINNOWS 5056

FEED 4862-4864

FERRETS 2942-2944

FERTILITY 5080

FINLAND 3031-3039, 3039, 3040, 3040-3042, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872, 4937-4941

FISHES 1638, 1654, 1962, 2179, 2181, 2182, 2185, 2226, 2227, 2240, 2242, 2254-2258, 2261, 2628-2631, 2631, 2632, 2632, 2633, 2633-2636, 2638, 2639, 2644, 2645, 2649, 2658-2660, 2663-2680, 2682, 2696-2705, 2707, 2709, 2718-2720, 2727-2729, 2735, 2737-2743, 2746, 2749-2751, 2753, 2754, 2760-2762, 2762, 2764-2767, 2767-2769, 2769-2775, 2775, 2776, 2776-2783, 2783, 2784, 2784-2789, 2789, 2790, 2790, 2791, 2791, 2792, 2792-2798, 2798, 2799, 2799-2815, 2815, 2816, 2816, 2817, 2817-2859, 2862-2876, 2879-2882, 2884-2886, 2894-2899, 2899-2901, 2903, 2905, 2910, 2913-2918, 2937, 2938, 2945-2948, 2955-2957, 2961, 2971, 2972, 2976, 2978-2980, 2982-2991, 2993-2995, 2995, 2996, 2996-2998, 3000-3011, 3011, 3012, 3012-3018, 3025-3031, 3031, 3032, 3032, 3033, 3033, 3034, 3034, 3035, 3035-3039, 3039, 3040, 3040, 3041, 3041, 3042, 3042, 3047, 3050-3052, 3057, 3065, 3074-3080, 3082-3084, 3092, 3093, 3098-3102, 3107-3109, 3111-3121, 3127, 3157-3178, 3204-3206, 3208-3210, 3216, 3217, 3225-3227, 3232, 3233, 3240, 3250, 3252-3257, 3316, 3317, 3319-3321, 3326-3330, 3357, 3363, 3368, 3369, 3373, 3386, 3388-3391, 3421, 3427-3429, 3433, 3434, 3441-3447, 3464, 3467, 3473-3480, 3486, 3487, 3541, 3548, 3572-3576, 3591, 3593-3595, 3611-3614, 3617, 3618, 3622-3628, 3642, 3667, 3676-3680, 3687, 3691, 3692, 3694-3699, 3712, 3714, 3715, 3719-3723, 3727, 3734-3736, 3789-3794, 3797, 3800-3804, 3806-3819, 3834-3836, 3838-3842, 3844-3849, 3864-3872, 3876-3890, 3893-3902, 3917-3920, 3924, 3925, 3930, 3931, 3933-3942, 3947, 3949-3960, 3967-3969, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4027, 4039-4052, 4070, 4076, 4085, 4099-4104, 4106, 4107, 4110, 4111, 4116-4118, 4123-4139, 4141-4146, 4165-4179, 4182, 4183, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4264, 4265, 4270, 4326, 4327, 4357, 4360, 4361, 4383, 4384, 4392, 4395, 4398, 4399, 4417, 4422-4425, 4427, 4430-4432, 4435-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4475-4477, 4503, 4506, 4514, 4519, 4520, 4524, 4534, 4535, 4538-4549, 4551-4563, 4572, 4577-4580, 4615-4617, 4621, 4622, 4627, 4628, 4646, 4647, 4649-4651, 4653-4657, 4659-4664, 4666, 4667, 4670, 4672, 4673, 4675, 4681, 4683, 4684, 4688, 4694, 4699-4712, 4714, 4715, 4728, 4731, 4742-4751, 4753, 4754, 4760, 4761, 4778-4780, 4782-4787, 4792-4799, 4805-4807, 4814-4818, 4824, 4829-4837, 4844, 4866-4876, 4883, 4886, 4891, 4892, 4896, 4906, 4908-4912, 4914, 4920-4927, 4937-4941, 4945-5020, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5050, 5065-5072, 5079, 5111, 5112, 5122-5129, 5133, 5134, 5136, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5206-5210, 5212, 5213, 5215, 5216, 5218-5227, 5229-5232, 5234-5239, 5245-5253, 5258, 5291, 5295-5317, 5345, 5346, 5359, 5361-5363, 5367, 5380-5382, 5386, 5387, 5391-5393, 5402, 5422-5424, 5432-5434, 5439-5444, 5452-5459, 5474-5484, 5494, 5499-5511, 5513-5519, 5542, 5547, 5548, 5556, 5557, 5560-5564, 5566, 5568-5574, 5576-5586, 5591, 5593, 5597, 5599, 5300, 5610, 5612, 5613, 5617-5625, 5641, 5643-5645, 5650, 5656, 5662-5673, 5724-5726, 5751, 5752, 5759, 5761, 5770, 5771, 5773, 5784, 5785, 5795-5800, 5808, 5825

FLORIDA 2703, 2706-2713, 2755, 2900, 2934, 3094-3097, 3145, 3417, 3461, 3535, 3665, 3799, 3805, 3921, 3927, 3987, 4014, 4112-4115, 4494-4498, 4500, 4567, 4605, 4634, 5165, 5211, 5214, 5286, 5493, 5543, 5565, 5567, 5594, 5607, 5744, 5749, 5760,

5767, 5806, 5811, 5823

FLY ASH 3225-3227, 3593-3595, 5122, 5123, 5361-5363

FOOD ADDITIVES 3352, 3392, 3448, 3984, 3985, 4188, 4189, 4494-4498, 4730, 4801, 4802, 4881, 4882, 5131, 5255, 5495-5497, 5826

FOOD CONTAMINATION 2638, 2639, 2644, 2645, 2649, 2658, 2660, 2683, 2684, 2699, 2704-2706, 2710, 2712, 2714, 2717, 2721-2723, 2736-2743, 2747, 2748, 2756-2759, 2763-2766, 2785-2788, 2877, 2878, 2897, 2901, 2902, 2912, 2919, 2939, 2949, 2950, 2970, 2973, 2974, 3036, 3043-3046, 3048, 3049, 3103-3106, 3110, 3146, 3147, 3152, 3155, 3156, 3251, 3279-3281, 3283, 3284, 3286, 3357, 3363, 3368, 3369, 3373, 3375, 3386, 3391, 3397, 3398, 3403, 3404, 3406, 3410-3414, 3418-3420, 3426, 3430-3432, 3448, 3451, 3462-3465, 3467, 3471, 3473, 3474, 3480-3483, 3486-3488, 3514, 3537, 3538, 3541, 3542, 3545-3547, 3581-3584, 3591, 3609, 3617, 3618, 3642, 3645, 3647, 3653, 3667, 3680, 3701-3703, 3711, 3713, 3716, 3728-3732, 3737-3741, 3748, 3752-3761, 3769-3774, 3795, 3806, 3922, 3923, 3926, 3948, 3970, 3971, 3984, 3985, 3988, 3989, 3995, 3997-4000, 4017, 4018, 4023, 4024, 4033-4035, 4073, 4077-4084, 4119-4122, 4192, 4194, 4199, 4203, 4213, 4224, 4229, 4230, 4234-4238, 4249, 4258, 4263, 4264, 4267, 4311-4313, 4315, 4317, 4323, 4325, 4357, 4361, 4363, 4364, 4368, 4373, 4375, 4392, 4393, 4398, 4399, 4411-4417, 4430-4442, 4449, 4452, 4457, 4458, 4462, 4464, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4537, 4550, 4568, 4569, 4572, 4574, 4581, 4582, 4610, 4611, 4613, 4618, 4647, 4652, 4666, 4667, 4681, 4685-4693, 4714, 4735, 4778-4780, 4788-4790, 4792, 4793, 4798-4800, 4820, 4821, 4883, 4886, 4891, 4892, 4896, 4897, 4906, 4908, 4928, 4929, 4931, 4932, 4934-4936, 4942, 4943, 5025-5027, 5031, 5032, 5035, 5037-5040, 5049, 5050, 5058, 5064, 5073, 5074, 5088, 5140-5142, 5146, 5147, 5150-5153, 5166, 5168-5173, 5200, 5233, 5248-5253, 5263, 5273, 5287, 5288, 5291, 5292, 5351-5353, 5359, 5378, 5386, 5387, 5402, 5403, 5405, 5408, 5422, 5425-5430, 5444, 5450, 5451, 5460-5473, 5495-5497, 5549, 5558, 5559, 5595, 5596, 5601-5606, 5648, 5651-5655, 5674-5678, 5697-5710, 5729, 5731-5734, 5743, 5762-5766, 5786-5789, 5801-5805, 5815, 5820, 5821, 5826

FOODS 3448, 5826

FORESTRY 4838-4843, 4845-4858

FOSSIL-FUELED POWER PLANTS 3225-3227, 3593-3595, 5122, 5123, 5361-5363

FRANCE 3351, 4185-4187, 4699-4705, 4715, 4882

FROGS 2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3120, 3210, 3216, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099, 4100, 4102, 4123-4128, 4131, 4135-4139, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5484, 5494, 5515, 5517, 5519, 5542, 5566, 5568, 5571, 5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5666, 5751, 5752, 5771, 5773, 5808

FUNGICIDES 5499-5511

FURAZOLIDONE 5709, 5710

GASTROINTESTINAL DISEASES 4185-4187

GEOLOGY 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823

GEORGIA 3756, 3774, 4448, 5060

GERMANY 3403, 3404, 3406, 3410-3414, 4412, 4414, 4416, 4433, 4434, 4735, 4816-4818, 4928, 4929, 4931, 4932, 4934-4936, 4942, 4943, 5038-5040, 5460-5473, 5727

GOATS 2630, 2710-2715, 2721-2726, 2808, 2809, 3134, 3137, 3138, 3141-3143, 3212-3215, 3322-3324, 3984, 3985, 4860, 4861, 4865, 5254-5256, 5495-5497, 5711-5720

GOLDFISH 4141-4146

GREAT LAKES 2777, 3022, 3837, 3946, 4068, 4648, 4944-4956, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

GREECE 2628-2636, 3217, 3232, 3233, 4360, 4383, 4384, 4621, 4650, 4651

GREENLAND 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794

GROWTH PROMOTERS 5709, 5710

HAWAII 2254, 2257, 3000, 3001, 4683, 4684, 4707, 4710

HEALTH HAZARDS 1786, 2860, 2861, 2883, 2911, 2935, 2936, 2964, 2965, 2992-2994, 3081, 3199, 3200, 3218-3220, 3282, 3285, 3287, 3288, 3346, 3448, 3568, 3569, 3579, 3581-3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362-4364, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 4829-4836, 4920-4927, 5059, 5130, 5132, 5176-5185, 5341, 5342, 5350-5355, 5442, 5443, 5551-5555, 5608, 5609, 5626, 5627, 5730, 5735-5740, 5768, 5769, 5774, 5776, 5777, 5817-5819, 5826

HERBICIDES 2631, 2632, 2710, 2712, 2714, 2721-2723, 3665, 5056, 5065-5072, 5176-5185, 5452-5459, 5730, 5735-5740

HORMONES 3683, 3915, 3916, 5054, 5055, 5061, 5162, 5822

HORSES 3581-3584, 4363, 4364, 4733, 4734, 5351-5353, 5756, 5757, 5775

HYDROCARBONS 3019-3030, 3908, 3909, 4164, 4180, 4181, 4736-4741, 4752, 4803, 4804, 4808, 4809, 5199, 5240

IDAHO 5081, 5091, 5121

ILLINOIS 2919, 3048, 3049, 3103-3106, 3415, 3709, 3795, 3796, 3915, 3997-4000, 4081-4084, 4119-4122, 4380-4382, 5054, 5549, 5550, 5559, 5592, 5602-5606, 5652-5655, 5674-5678, 5680, 5692, 5695, 5758, 5762-5766, 5786-5789, 5801-5805, 5815, 5816, 5820, 5821

IN VITRO ANALYSIS 3120, 3210, 3216

INDIA 2808, 2809, 3384, 3385, 3514, 4199, 4264, 4267, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435, 4550, 5254-5256, 5263, 5679

INDIAN OCEAN 2179, 2181, 2182, 2185, 2226, 2227, 2240, 2242, 2255, 2256, 2258, 2261, 4545, 4548, 4549, 4553, 4627, 4628, 4664, 4672, 4706, 4709, 4711, 4712

INDIANA 1524-1527, 2685-2688

INDUSTRIAL AREAS 1545, 1547, 1549, 1721, 1723, 1725, 1802, 1804, 1806, 1847, 1850, 1852, 2092, 2095, 2098, 2187-2189, 2387, 2388, 2390, 2467, 2469, 2471, 2700-2702, 3133,

3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283

INDUSTRIAL CHEMICALS 2940, 2941, 4019, 4020, 4914

INDUSTRIAL EMISSIONS 1638, 2895, 5442, 5443

INDUSTRIAL POLLUTION 2689-2693, 2718, 2719, 2769, 2785-2788, 2812, 2826, 2876, 2879, 2882, 2885, 2894, 2909-2911, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3043-3046, 3065, 3084, 3102, 3108, 3109, 3225-3227, 3254, 3255, 3300-3305, 3335-3341, 3430-3432, 3514, 3536, 3593-3595, 3612, 3701-3703, 3729-3732, 3891, 3892, 4077-4080, 4199, 4264, 4267, 4354-4357, 4361, 4380-4382, 4392, 4395, 4398, 4399, 4417, 4419, 4420, 4430-4432, 4435, 4536, 4550, 4573, 4583, 4584, 4599, 4600, 4602-4604, 4608, 4612, 4614, 4619, 4622-4625, 4630, 4653, 4658, 4669, 4682, 4697, 4698, 4805-4807, 4824, 4837, 4937-4941, 4945-4965, 5124-5129, 5186-5198, 5206, 5263, 5361-5363, 5381, 5442, 5443, 5482, 5547, 5548, 5558, 5651, 5724-5726

INFANTS 2696-2698

INFECTION 2628, 5051-5053, 5163, 5164, 5711-5722, 5741-5743

INGESTION 4819

INHALATION 3514, 4199, 4267, 4550, 4819, 5263

INSECTICIDES 2630, 2633, 2696-2700, 2703, 2744, 2745, 2755, 2777, 2797-2799, 2836-2841, 2866-2868, 2875, 2881, 2886-2893, 2896, 2900, 2904-2910, 2919-2934, 2951-2955, 2958-2960, 2962, 2963, 2966-2969, 2975, 2977, 2984, 2988, 2990, 3013-3024, 3037, 3038, 3048, 3049, 3053-3056, 3058-3064, 3074, 3075, 3078, 3085-3091, 3103-3106, 3145, 3415, 3417, 3461, 3535, 3709, 3714, 3715, 3719, 3720, 3722, 3723, 3727, 3735, 3736, 3775-3789, 3791, 3793, 3794, 3796, 3799-3801, 3805, 3809, 3815, 3817, 3819, 3837, 3838, 3843, 3868, 3871, 3918-3921, 3924, 3925, 3927, 3930, 3935, 3940, 3942, 3946, 3947, 3951-3953, 3957, 3960, 3967, 3972, 3977-3983, 3987, 3990-3993, 3996-4000, 4002, 4004-4014, 4021, 4022, 4025, 4026, 4030-4032, 4036, 4037, 4041, 4046, 4049, 4054-4057, 4061-4070, 4074, 4075, 4081-4084, 4086-4092, 4099, 4100, 4102, 4108-4110, 4119-4128, 4131, 4135-4139, 4141-4146, 4500, 4567, 4605, 4648, 4844, 4860, 4861, 4865-4876, 4944, 5165, 5207-5216, 5220, 5225, 5227-5232, 5286, 5484-5494, 5498-5511, 5515, 5517, 5519, 5524-5543, 5550, 5559, 5565-5568, 5571, 5573, 5575, 5578, 5579, 5583, 5585, 5586, 5589-5592, 5594, 5597-5599, 5602-5607, 5611, 5612, 5614, 5615, 5619, 5621, 5624, 5642, 5643, 5649, 5652-5655, 5666, 5674-5678, 5744, 5746, 5749, 5751-5753, 5758, 5760, 5762-5767, 5771, 5773, 5783, 5786-5789, 5801-5806, 5808, 5809, 5811, 5813, 5816, 5820, 5821, 5823

INSECTS 2716, 3128, 3224, 3318, 3466, 3517, 3580, 3592, 3668, 4271, 4378, 4421, 4823, 5205, 5267, 5360, 5431

INTEGUMENT 2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419

IOWA 2689-2693, 5131

IRAN 2710, 2712, 2714, 2721-2723

IRELAND 3911-3914

ITALY 2916, 2937, 2993-2998, 3026, 3030, 3035, 3042, 4736-4741, 5186-5198

JAPAN 2650-2657, 2663-2677, 2708, 2749, 2760, 2762, 2767, 2769, 2775, 2776, 2783, 2789, 2791, 2792, 2880, 2957, 2978, 3011, 3012, 3025, 3032, 3050, 3052, 3057, 3080, 3108, 3159-3178, 3203, 3240, 3306-3313, 3316, 3317, 3376-3383, 3499, 3571, 3656-3663, 3712, 3721, 3790, 3792, 3806, 3810-3812, 3834, 3836, 3841, 3847-3849, 3870, 4165, 4167-4172, 4174-4176, 4178, 4221, 4239-4246, 4353, 4465-4472, 4512, 4525-4532, 4536, 4573, 4583, 4584, 4599, 4600, 4608, 4609, 4612, 4614, 4619, 4623-4625, 4630, 4658, 4669, 4682, 4697, 4698, 4767, 4805-4807, 4824, 4837, 4898-4905, 5020, 5041-5048, 5154-5161, 5234-5239, 5298-5317, 5344, 5367, 5412-5419, 5423, 5424

JUVENILES 2086-2089, 2091, 2094, 2097, 2099-2102, 2628, 2637-2642, 2720, 2762, 2764-2778, 2778, 2779, 2779, 2780, 2780, 2781, 2781, 2782, 2782-2785, 2785, 2786, 2786, 2787, 2787, 2788, 2788-2796, 2887-2893, 2897, 2904, 2906, 2907, 2909-2911, 2920-2933, 2940-2942, 2942, 2943, 2943, 2944, 2944, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 2988-2990, 3013-3021, 3023, 3024, 3043-3046, 3053-3056, 3058-3064, 3085-3090, 3131, 3132, 3135, 3139, 3187-3189, 3191, 3192, 3282, 3285, 3287, 3288, 3410, 3411, 3413, 3430-3432, 3520, 3522, 3525, 3528, 3531, 3556-3558, 3560, 3561, 3581-3584, 3670, 3671, 3674, 3701-3703, 3705-3708, 3710, 3729-3732, 3858-3863, 3873-3875, 3915, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4077-4080, 4086-4092, 4108, 4184, 4201, 4253, 4254, 4257, 4275, 4278-4280, 4282, 4284, 4285, 4287, 4289, 4292, 4295, 4297-4299, 4301-4307, 4309, 4339, 4342, 4344, 4363, 4364, 4412, 4414, 4416, 4426, 4433, 4434, 4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4577-4580, 4585-4597, 4601-4604, 4615-4617, 4620, 4649, 4654-4657, 4665, 4668, 4671, 4674, 4689-4696, 4713, 4716-4727, 4730, 4736-4741, 4801, 4802, 4937-4943, 4966-5019, 5038-5040, 5054, 5094-5106, 5121, 5130-5132, 5245-5247, 5271, 5275, 5278, 5282, 5326, 5328, 5329, 5331, 5332, 5351-5353, 5425-5430, 5450, 5451, 5485-5492, 5498, 5524-5532, 5534-5541, 5544-5546, 5558, 5651, 5679, 5682, 5683, 5685-5691, 5694

KANSAS 5062, 5063

KENTUCKY 3120, 3210, 3216, 4730, 4801, 4802

KENYA 2628

KOALAS 3500, 3587, 3588, 4513, 5356

LACTATION 2661, 2662, 2696-2698, 2942-2944, 3045-3050, 3351, 3352, 3387, 3401, 3402, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3669, 3672, 3673, 3748, 3775-3788, 3984, 3985, 4188, 4189, 4200, 4207, 4209, 4250, 4256, 4474, 4482, 4485, 4487, 4489-4491, 4493, 4865, 4881, 4907, 4930, 4933, 5024, 5051-5053, 5057, 5060, 5174, 5175, 5233, 5255, 5435-5437, 5495-5497, 5711-5720, 5743

LAKES 4659

LAND POLLUTION 2683, 2689-2693, 2699, 2708, 2736, 2768, 2981, 3110, 3203, 3279-3281, 3283, 3284, 3286, 3300-3305, 3333-3341, 3375, 3397-3400, 3405, 3410, 3411, 3413, 3451, 3481-3483, 3488, 3499, 3571, 3581-3584, 3645, 3647, 3653, 3700, 3712, 3721, 3932, 3963, 4038, 4203, 4221, 4235-4238, 4263, 4277, 4353, 4363, 4364, 4411-4416, 4433, 4434, 4464, 4512, 4609, 4685-4687, 4767, 4788-4790, 4838-4843, 4845-4858, 4897, 4942, 4943, 5025, 5037-5040, 5064, 5073, 5074, 5088, 5140, 5151, 5167, 5200, 5217, 5273, 5344, 5351-5353, 5403, 5405, 5408, 5512, 5616, 5745, 5750, 5772, 5807, 5812

LARVAE 2698, 3719, 3720, 3727

LEAD POISONING 2086-2089, 2091, 2094, 2097, 2099-2102, 2999, 3179, 4003, 4266, 4274, 4275, 4278-4282, 4284, 4285, 4287-4289, 4292, 4293, 4295, 4297-4299, 4301-4307, 4309, 4328, 4329, 4598

LIPIDS 2898, 3976, 3984, 3985, 3994, 4028, 4029, 4105, 4730, 4801, 4802, 4866, 5495-5497

LIVER DISEASES 2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825

LOBSTERS 2876, 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102

LOUISIANA 2755, 2800-2802, 2881, 2886, 2896, 2905, 2910, 2934, 2955, 2982-2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3734, 3735, 3791, 3793, 3794, 3800, 3801, 3805, 3809, 3813-3819, 3838, 3867, 3868, 3918-3920, 3924, 3925, 3927, 3930, 3933-3942, 3947, 3951-3954, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4014, 4021, 4022, 4026, 4039-4052, 4070, 4099-4104, 4123-4139, 4447, 4605, 5080, 5207-5210, 5212-5216, 5218-5227, 5229-5232, 5484, 5493, 5494, 5513-5519, 5542, 5543, 5561-5563, 5566-5573, 5578, 5579, 5582-5584, 5586, 5591, 5597, 5599, 5607, 5612, 5617-5625, 5643, 5665-5668, 5744, 5749, 5751, 5752, 5767, 5771, 5773, 5798-5800, 5806, 5808, 5811

MAINE 2752, 2755, 2800-2807, 2934, 3315, 3416, 3485, 3666, 3684, 3798, 3805, 3927, 4014, 4248, 4605, 4822, 4913, 4915, 5214, 5421, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

MAMMALS 3159-3178, 3240, 3316, 3317, 5186-5198, 5298-5317, 5367, 5423, 5424

MARINE ORGANISMS 3150, 3151, 3207, 3221, 3229, 3231, 3234, 3248, 3258, 3259, 3267, 3331, 3342, 3345

MARYLAND 2011, 2012, 2578, 2579, 2637-2642, 2704-2706, 2717, 2744, 2745, 2755, 2883, 2901, 2902, 2911, 2912, 2934, 2964, 2965, 2991, 2992, 3036, 3081, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 3670, 3671, 3674, 3711, 3713, 3716, 3728, 3805, 3922, 3923, 3926, 3927, 3948, 3973-3976, 3988, 3989, 3994, 3995, 4014, 4028, 4029, 4071-4073, 4105, 4253, 4254, 4257, 4311-4313, 4365, 4366, 4368, 4373, 4375, 4393, 4568, 4569, 4574, 4605, 4652, 5214, 5287, 5288, 5292, 5378, 5493, 5543, 5567, 5589, 5590, 5595, 5596, 5601, 5607, 5646-5648, 5744, 5749, 5767, 5806, 5811

MASSACHUSETTS 2876, 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102, 3128, 3224, 3315, 3318, 3485, 3517, 3592, 3666, 3668, 4248, 4271, 4378, 4421, 5267, 5360, 5421, 5431

MAYFLIES 5065-5072, 5452-5459

MEASUREMENT METHODS 2680, 2682, 2707, 2709, 2727-2729, 2842-2859, 2897-2901, 2916, 2937, 2940, 2941, 2993-2998, 3026, 3030, 3035, 3042, 3179, 4003, 4019, 4020, 4141-4146, 4182, 4183, 4191, 4329, 4598, 4731, 4753, 4814, 4815, 4820, 4821, 4865, 4914, 4957-4965, 5474-5481, 5729, 5731-5734, 5825

MEAT 3280, 3283, 3286, 5697-5708

MEDITERRANEAN SEA 2884, 2899, 2903, 2913, 2956, 2971, 2972, 2976, 2991, 2995, 3027-3029, 3031, 3033, 3076, 3077, 3093

MERCURY INORGANIC COMPOUNDS 4699-4705, 4715

METABOLISM 2363-2366, 2629, 2631, 2682, 2842-2859, 2897, 3189, 3192, 3236-3239, 3558, 3561, 3748,

4730, 4801, 4802, 4810-4813, 4816-4818, 5024, 5329, 5332, 5448, 5449, 5824

METABOLITES 2630, 2680, 2682, 2735, 2750, 2751, 2753, 2754, 2792-2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 2875, 2897, 2988-2990, 3067-3072, 3392, 3415, 3435-3439, 3448, 3709, 3736, 3748, 3775-3788, 3796, 3850-3855, 3871, 3957, 3960, 3967, 4093-4098, 4110, 4141-4146, 4182, 4183, 4731, 4753, 4814-4818, 4829-4836, 4838-4843, 4845-4858, 4860, 4861, 4865, 4920-4927, 5176-5185, 5448, 5449, 5499-5511, 5544-5546, 5550, 3585, 5592, 5657-5661, 5730, 5735-5740, 5758, 5790-5794, 5816, 5825, 5826

METAL POISONING 2650-2657, 2711, 2713, 2715, 2718-2720, 2724-2726, 2746, 2860, 2861, 2935, 2936, 2992-2994, 3179, 3199, 3200, 3218-3220, 3255, 3282, 3285, 3287, 3288, 3306-3313, 3376-3383, 3523, 3524, 3527, 3530, 3533, 3568, 3569, 3579, 3581-3586, 3612, 3656-3663, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4003, 4015, 4016, 4053, 4058, 4059, 4202, 4204-4206, 4208, 4239-4246, 4283, 4286, 4291, 4294, 4308, 4329, 4350, 4351, 4362-4364, 4376, 4377, 4395, 4465-4472, 4483, 4484, 4486, 4488, 4492, 4525-4532, 4598, 4606, 4607, 4626, 4629, 4631, 4634, 4653, 4660, 4670, 4689-4693, 4728, 4898-4905, 5041-5048, 5124, 5154-5161, 5272, 5274, 5277, 5280, 5284, 5341, 5342, 5350-5355, 5381, 5412-5419, 5425-5430, 5442, 5443, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

METALS 2650-2657, 2706, 3121, 3125, 3126, 3129-3132, 3135, 3139, 3144, 3155-3161, 3190, 3193-3196, 3203-3206, 3208, 3211, 3212, 3225-3228, 3236-3242, 3253, 3256, 3257, 3260, 3261, 3268-3273, 3279, 3281, 3284, 3292-3299, 3306-3314, 3316, 3317, 3319-3321, 3325-3330, 3333, 3334, 3343, 3344, 3375-3383, 3460, 3481-3484, 3493, 3499, 3505, 3515, 3516, 3518-3520, 3523-3525, 3527, 3528, 3530, 3531, 3533, 3534, 3545-3547, 3549, 3550, 3559, 3562-3567, 3571-3575, 3577, 3578, 3593-3596, 3599, 3600, 3611, 3613-3616, 3627, 3628, 3631-3636, 3645, 3647, 3653, 3655-3664, 3675-3679, 3681, 3682, 4003, 4202, 4204-4206, 4208, 4210, 4221, 4235-4247, 4265, 4268, 4269, 4272, 4273, 4283, 4286, 4291, 4294, 4308, 4310, 4315, 4317, 4323, 4325-4327, 4329, 4331, 4332, 4341, 4343, 4346-4349, 4353, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4411, 4413, 4415, 4418, 4422-4425, 4428, 4429, 4464-4472, 4483, 4484, 4486, 4488, 4492, 4499, 4512, 4525-4533, 4581, 4582, 4585-4598, 4609, 4685-4687, 4689-4693, 4716-4727, 4754, 4759-4761, 4767, 4788-4791, 4794-4797, 4897-4905, 5037, 5041-5048, 5094-5106, 5151, 5154-5161, 5258, 5264-5266, 5268-5272, 5274, 5275, 5277, 5278, 5280, 5282, 5284, 5285, 5295, 5296, 5298-5320, 5327, 5330, 5333-5340, 5344-5349, 5361-5364, 5367-5369, 5380, 5382-5385, 5391-5401, 5403, 5405, 5408, 5411-5420, 5423-5430, 5432-5434, 5438-5441, 5445-5447

METHYL MERCURY COMPOUNDS 2746, 4699-4705, 4715, 4728

MEXICO 2862-2865, 2869-2874, 3019-3030, 3797, 3802, 3807, 3808, 3835, 3839, 3840, 3864-3866, 3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5600, 5610, 5641, 5644, 5645, 5662-5664, 5759, 5761, 5770, 5784, 5785, 5795-5797

MICE 2696-2700, 2838-2841

MICHIGAN 2684, 2755, 2778-2782, 2934, 2940-2944, 3002-3018, 3805,

3877, 3878, 3880-3882, 3884-3890, 3893-3897, 3927, 4014, 4605, 5065-5072, 5162, 5214, 5450-5459, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

MIDGES 3719, 3720, 3727

MINERAL METABOLISM 3351-3353, 3358, 4881, 4882

MINERAL OILS 2684

MINERALS 3045-3050, 3351, 3387, 3673, 4256, 4447, 4474, 4907, 5437

MINING 4354-4356, 4419, 4420

MINK 2778-2782, 2940-2944

MINNESOTA 1541, 1542, 1783, 2259, 2260, 2694, 2695, 2755, 2934, 3332, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

MISSISSIPPI 5079

MISSOURI 2563, 2565, 2604, 2611, 4276, 4314, 4316, 4318-4322, 4324, 5587, 5588, 5748, 5755

MOLLUSKS 1728, 1729, 1731, 1732, 1742-1744, 1760, 1815-1817, 1821, 1836-1838, 1840, 1859, 1860, 1862, 1863, 1870-1872, 1888, 1891, 1892, 2065-2068, 2126-2128, 2187, 2162-2166, 2190-2193, 2309-2311, 2317, 2363-2366, 2478, 2479, 2481, 2482, 2488-2490, 2501, 2628-2636, 2678, 2679, 2704-2706, 2717, 2725, 2750-2754, 2796-2805, 2805-2807, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 2862-2865, 2869-2874, 2916, 2937, 2993-2998, 3026, 3030, 3035, 3042, 3144, 3146-3149, 3152-3154, 3217, 3228, 3230, 3232, 3233, 3235-3239, 3249, 3251, 3252, 3292-3299, 3314, 3416, 3460, 3462, 3463, 3465, 3468-3472, 3484, 3493, 3501-3505, 3534, 3537-3540, 3542-3544, 3596-3598, 3608-3610, 3629, 3630, 3655, 3664, 3684, 3797, 3798, 3802, 3807, 3808, 3835, 3839, 3840, 3864-3866, 4210-4212, 4214, 4215, 4247, 4310-4313, 4360, 4379, 4382-4385, 4391, 4393, 4394, 4418, 4499, 4501, 4502, 4504, 4505, 4533, 4568-4571, 4574-4576, 4621, 4650-4652, 4759, 4768, 4769, 4776, 4777, 4791, 4810-4813, 4822, 4825-4828, 4913, 4915-4919, 5285, 5287-5290, 5292-5294, 5364-5366, 5377-5379, 5411, 5420, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5600, 5610, 5641, 5644, 5645, 5662-5664, 5759, 5761, 5770, 5784, 5785, 5795-5797

MONKEYS 2696-2698

MORTALITY 3120, 3210, 3216

MUSCULOSKELETAL SYSTEM 3742-3747, 3749-3751, 3762-3768, 5122, 5123

MUSSELS 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 4770, 4775

NARCOTICS 4733, 4734

NECROPSIES 4859

NEOPLASMS 2660, 2662, 4162, 4183, 4731, 4753, 4814, 4815, 5825

NETHERLANDS 2707, 2709, 2727-2729, 2897, 2897-2901, 3066, 3202, 3570, 4352, 5343

NEUROLOGIC MANIFESTATIONS 5060

NEVADA 2762, 2764-2796, 4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4577-4580, 4615-4617, 4649, 4654-4657, 4694

NEW GUINEA 2701-2705, 4646, 4663, 4673, 4675, 4705

NEW JERSEY 3879, 3883, 3898-3902, 5728

NEW MEXICO 3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408

NEW YORK 1786, 2755, 2887-2893, 2904, 2906, 2907, 2920-2934, 2947, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3209, 3280, 3282, 3283, 3285-3288, 3346, 3576, 3805, 3877-3890, 3893-3902, 3927, 3978-3981, 4002, 4004-4014, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 4605, 5136, 5214, 5485-5493, 5498, 5524-5532, 5534-5541, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

NEWBORN 2662, 2696-2698, 3044, 3669, 3672, 3858-3863, 3873-3875, 4250, 5086, 5435, 5436

NORTH CAROLINA 5122, 5123

NORWAY 2747, 2748, 2756-2759, 2763-2766, 2785-2788, 2877, 2878, 2939, 2949, 2950, 2970, 2973, 2974, 3043-3046, 3352, 3430-3432, 3701-3703, 3729-3732, 3970, 3971, 4017, 4018, 4023, 4024, 4033-4035, 4077-4080, 4537, 4610, 4611, 4613, 4618, 4881, 5558, 5651

NUTRITIONAL DEFICIENCIES 3352, 3374, 3644, 3650, 3652, 4463, 4730, 4801, 4802, 4881, 4882, 5036, 5135

NUTRITIONAL DISORDERS 3351, 3448, 4447, 4448, 4494-4498, 5130, 5132, 5450, 5451, 5826

OHIO 2755, 2934, 3333, 3334, 3805, 3858-3863, 3873-3875, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

OIL SPILLS 3019-3030

ONTARIO 2812, 2826, 3109, 4661, 4662, 5111, 5112, 5206, 5482, 5547, 5548, 5724-5726

OREGON 1728, 1729, 1731, 1732, 1859, 1860, 1862, 1863, 2065-2068, 2163-2166, 2190-2193, 2478, 2479, 2481, 2482, 2755, 2934, 3148, 3149, 3153, 3154, 3539, 3540, 3543, 3544, 3805, 3927, 4014, 4211, 4212, 4214, 4215, 4501, 4502, 4504, 4505, 4570, 4571, 4575, 4576, 4605, 5214, 5289, 5290, 5293, 5294, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

ORGANOPHOSPHATES 2630, 2633, 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4054-4057, 4500, 4567, 4838-4864, 4866-4876, 5165, 5211, 5286, 5565, 5594, 5760, 5823

ORGANOSILICON COMPOUNDS 5020

OTTERS 1750-1752, 1878-1880, 2132-2134, 2496-2498, 2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243-3247, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3607, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4388-4390, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5376, 5388-5390

OWLS 5728

OYSTERS 2901, 2902, 2912, 3036, 3111-3119, 3250, 3418-3420, 3426, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435, 4742-4751, 4770, 4775, 5595, 5596, 5601, 5648

PACIFIC OCEAN 2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 2918, 3000, 3001, 3034, 3079, 3107,

3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 3804, 3842, 3869, 3876, 4166, 4173, 4177, 4179, 4213, 4224, 4229, 4230, 4234, 4249, 4255, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4585-4597, 4647, 4666, 4667, 4681, 4683, 4684, 4688, 4714, 4716-4727, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5094-5106, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444

PARTICULATES 4314, 4316, 4318-4322, 4324

PENNSYLVANIA 2696-2698

PERCH 3254

PESTICIDE RESIDUES 2563, 2565, 2604, 2611, 2630-2633, 2663-2677, 2710, 2712, 2714, 2721-2723, 2730-2735, 2747-2751, 2753-2776, 2783-2805, 2807-2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 2860-2865, 2869-2875, 2877, 2878, 2880, 2881, 2883, 2886-2893, 2896, 2904-2911, 2919-2936, 2939, 2949-2955, 2957-2970, 2973-2975, 2977, 2978, 2981-2990, 2992-2994, 2997-3021, 3023-3025, 3031, 3032, 3032-3037, 3037, 3038, 3038, 3039, 3039, 3040, 3040, 3041, 3041-3064, 3067-3075, 3078, 3080-3083, 3085-3092, 3098-3101, 3103-3106, 3106, 3179, 3199, 3200, 3218-3220, 3355, 3356, 3359, 3360, 3415, 3421-3425, 3427-3447, 3568, 3569, 3579, 3585, 3586, 3665, 3685-3692, 3694-3703, 3709, 3712, 3714, 3715, 3717-3727, 3729-3732, 3734-3736, 3790-3797, 3800-3802, 3805-3836, 3838-3841, 3842-3856, 3858-3868, 3870-3875, 3903-3907, 3918-3920, 3924, 3925, 3927-3945, 3947, 3949-3972, 3977-3986, 3990-3993, 3996-4018, 4021-4027, 4030-4053, 4058-4067, 4069, 4070, 4074-4104, 4106-4111, 4116-4139, 4141-4146, 4165, 4167-4172, 4174-4176, 4178, 4329, 4350, 4351, 4362, 4376, 4377, 4537, 4598, 4605-4607, 4610, 4611, 4613, 4618, 4626, 4629, 4631-4633, 4635-4645, 4820, 4821, 4824, 4837-4858, 4860, 4861, 4865-4876, 5207-5210, 5212-5227, 5229-5232, 5341, 5342, 5350, 5354, 5355, 5484-5498, 5512-5532, 5534-5543, 5549-5564, 5566-5574, 5576-5588, 5591-5593, 5597-5600, 5602-5641, 5643-5645, 5649-5678, 5728, 5729, 5731-5734, 5744, 5745, 5747-5752, 5754-5759, 5761-5782, 5784-5808, 5810-5812, 5814-5821

PESTICIDES 2663-2677, 2703, 2716, 2730-2734, 2749, 2755, 2760, 2762, 2767, 2770-2777, 2783, 2785-2789, 2791, 2792, 2880, 2900, 2908, 2909, 2919, 2934, 2954, 2957, 2975, 2977, 2978, 2988-2990, 2997-3012, 3022, 3025, 3032, 3037-3040, 3043-3050, 3052, 3057, 3073, 3080, 3091, 3098, 3103-3106, 3145, 3417, 3422-3425, 3427, 3428, 3430-3433, 3440, 3444, 3461, 3466, 3535, 3580, 3701-3703, 3705-3708, 3710, 3712, 3721, 3729-3732, 3790, 3792, 3799, 3805, 3810-3812, 3820-3834, 3836, 3837, 3841, 3843-3849, 3856, 3858-3863, 3870, 3872-3875, 3903-3907, 3921, 3927, 3945, 3946, 3973-3975, 3987, 3991, 3992, 3997-4000, 4014, 4025, 4036, 4037, 4060, 4068, 4074, 4075, 4077-4084, 4109, 4119-4122, 4141-4146, 4165, 4167-4172, 4174-4176, 4178, 4500, 4567, 4605, 4632, 4633, 4635-4645, 4648, 4823, 4838-4843, 4845-4858, 4944, 5165, 5176-5185, 5205, 5211, 5214, 5228, 5286, 5493, 5520-5523, 5533, 5543-5546, 5558, 5559, 5565, 5567, 5575, 5589, 5590, 5594, 5598, 5602-5607, 5611, 5614, 5615, 5628-5640, 5642, 5649, 5651-5655, 5674-5678, 5728, 5730, 5735-5740, 5744, 5746, 5747, 5749, 5753, 5754, 5756, 5757, 5760, 5762-5767, 5775, 5778-5783, 5786-5789, 5801-

5806, 5809-5811, 5813, 5814, 5820, 5821, 5823

PH 2659

PHENOLS 4816-4818

PHTHALATES 2752, 2800-2807, 3416, 3684, 3798, 4822, 4913, 4915

POISONING 2630, 2678, 2679, 2836, 2837, 3789, 4367, 4369-4372, 4374, 4859-4861, 4865, 5448, 5449

POLAND 2688-2695, 2818-2832, 3182-3186, 3494-3498, 3551-3555, 4216-4220, 4334-4338, 4507-4511, 4762-4766, 5186-5198, 5201-5204, 5241-5244, 5321-5325

POLYCHLORINATED DIBENZOFURANS 3879, 3883, 3898-3902, 4945-4956

POLYCHLORINATED TERPHENYLS 5186-5198

POLYCYCLIC AROMATIC HYDROCARBONS 2363-2366, 2678-2680, 2682, 2842-2859, 4182, 4183, 4731, 4753, 4810-4815, 5825

POPULATION EXPOSURE 2755, 2924, 2940, 2941, 3315, 3448, 3485, 3666, 3805, 3858-3863, 3873-3875, 3927, 4014, 4019, 4020, 4248, 4427, 4605, 5214, 5421, 5493, 5543, 5567, 5607, 5697-5708, 5744, 5749, 5767, 5806, 5811, 5826

POWER PLANTS 3536

PRAWNS 4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435

PREGNANCY 1524-1527, 1786, 2662, 2685-2688, 2942-2944, 3044, 3346, 3351, 3669, 3672, 3683, 3916, 3984, 3985, 4250, 5055, 5061, 5086, 5135, 5435, 5436, 5495-5497, 5822

QUAIL 5062, 5063

RABBITS 2661, 3401, 4930, 4933, 5175

RACCOONS 2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390

RADIOISOTOPES 4191, 4193, 4909-4912, 4914

RADIONUCLIDES 2661, 2942-2944, 3393-3396, 3399-3414, 3449, 3450, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3506-3509, 3775-3788, 3858-3863, 3873-3875, 3984, 3985, 4185-4187, 4192, 4194, 4200, 4207, 4209, 4259-4262, 4264, 4357, 4361, 4392, 4398, 4399, 4412, 4414, 4416, 4417, 4430-4435, 4482, 4485, 4487, 4489-4491, 4493, 4735, 4816-4818, 4825-4836, 4916-4936, 4942, 4943, 5038-5040, 5051-5053, 5135, 5167, 5174-5185, 5245-5247, 5257, 5495-5497, 5499-5511, 5711-5720, 5730, 5735-5740

RESINS 4937-4941

RESPIRATORY DISEASES 4188, 4189

REVIEW 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 2884, 2899, 2903, 2913, 2956, 2971, 2972, 2976, 2991, 2995, 3027-3029, 3031, 3033, 3076, 3077, 3093, 3134, 3137, 3138, 3141-3143, 3150, 3151, 3207, 3213-3215, 3221, 3229, 3231, 3234, 3248, 3258, 3259, 3267, 3322-3324, 3331, 3342, 3345, 3683, 3916, 4909-4912, 5055, 5061, 5186-5198, 5822

RHODE ISLAND 1891, 1892, 3315, 3485, 3629, 3630, 3666, 3879, 3883, 3898-3902, 4248, 4770, 4775, 5421

SAUDI ARABIA 4778-4780, 4792, 4793, 4798, 4799, 5248-5253

SCOTLAND 3392, 4141-4146, 4966-5019, 5057

SEALS 2793-2797, 3066-3073, 3274-3278, 3435-3440, 3637-3641, 3850-3856, 4093-4098, 4406-4410, 4676-4680, 4957-4965, 5116-5120, 5657-5661, 5747, 5754, 5790-5794, 5810, 5814

SEDIMENTS 2898, 3120, 3127, 3210, 3216, 3289-3291, 4270, 4659

SEWAGE 2684, 2876, 2879, 2882, 2885, 2894, 2898, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102, 3155, 3156, 3279-3291, 3333, 3334, 3375, 3481-3483, 3545-3547, 3645, 3647, 3653, 4192, 4194, 4235-4238, 4315, 4317, 4323, 4325, 4411, 4413, 4415, 4464, 4581, 4582, 4685-4687, 4788-4790, 4897, 5037, 5151, 5186-5198, 5403, 5405, 5408

SEX 2793-2797, 2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3067-3072, 3085-3090, 3274-3278, 3315, 3410, 3411, 3413, 3435-3439, 3485, 3637-3641, 3666, 3719, 3720, 3727, 3850-3855, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4098, 4108, 4248, 4406-4410, 4412, 4414, 4416, 4433, 4434, 4676-4680, 4942, 4943, 5038-5040, 5116-5120, 5421, 5485-5492, 5498, 5524-5532, 5534-5541, 5657-5661, 5790-5794

SEYCHELLES 2179, 2181, 2182, 2185, 2226, 2227, 2240, 2242, 2255, 2256, 2258, 2261, 4545, 4548, 4549, 4553, 4627, 4628, 4664, 4672, 4708, 4709, 4711, 4712

SHARKS 3000, 3001, 4683, 4684

SHEEP 1786, 2710-2715, 2721-2726, 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 3279-3291, 3346, 3374, 3375, 3392, 3403, 3404, 3406, 3410-3414, 3481-3483, 3521, 3643-3654, 3693, 3704, 3733, 3857, 4163, 4190, 4191, 4235-4238, 4411-4416, 4433, 4434, 4463, 4464, 4685-4687, 4730, 4732, 4735, 4788-4790, 4801, 4802, 4897, 4928, 4929, 4931, 4932, 4934-4936, 4942, 4943, 5036-5040, 5059, 5121, 5135, 5151, 5176-5185, 5257, 5403-5410, 5448, 5449, 5730, 5735-5740, 5824

SHELLFISH 2704-2706, 2717, 2901, 2902, 2912, 3036, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311-4313, 4393, 4568, 4569, 4574, 4652, 5234-5239, 5287, 5288, 5292, 5378, 5595, 5596, 5601, 5648

SHREWS 3300-3305, 3335-3341, 3858-3863, 3873-3875

SHRIMP 4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435

SILICONES 4805-4807

SILKWORMS 2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419

SMELTERS 3202, 3570, 4277, 4352, 5343

SNAILS 3315, 3384, 3385, 3485, 3666, 4248, 4354-4356, 4419, 4420, 5065-5072, 5421, 5452-5459

SNAKES 2696-2700, 2800-2802, 2838-2841, 2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3734, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3867, 3868, 3891, 3892, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3954, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099-4104, 4123-4128, 4131, 4135-4139, 4778-4780, 4792, 4793, 4798, 4799, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5248-5253, 5484, 5494, 5515, 5517, 5519, 5542, 5561-5563, 5566, 5568, 5571, 5573, 5578, 5579, 5582-5584, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5665-5668, 5751, 5752, 5771, 5773, 5798-5800, 5808

SOILS 2708, 3202, 3203, 3280, 3282, 3283, 3285-3288, 3333, 3334, 3499, 3570, 3571, 4221, 4314, 4316, 4318-4322, 4324, 4352, 4353, 4512, 4609, 4767, 5343, 5344

SOUTH AFRICA 1742-1744, 1760, 1815-1817, 1821, 1836-1838, 1840, 1870-1872, 1883, 2126-2128, 2137, 2309-2311, 2317, 2488-2490, 2501, 2908, 2909, 2954, 2975, 2977, 3037, 3038, 3091, 3144, 3228, 3230, 3235, 3249, 3252, 3292-3299, 3314, 3460, 3468-3470, 3472, 3484, 3493, 3501-3505, 3534, 3596-3598, 3608, 3610, 3655, 3664, 3843, 3991, 3992, 4025, 4036, 4037, 4074, 4075, 4109, 4210, 4247, 4310, 4379, 4385, 4391, 4394, 4418, 4499, 4533, 4759, 4768, 4769, 4776, 4777, 4791, 5285, 5364-5366, 5377, 5379, 5411, 5420, 5598, 5611, 5614, 5615, 5649

SOUTH CAROLINA 3111-3119, 3250, 3748, 4742-4751

SOUTH DAKOTA 5130, 5132

SPAIN 2815-2817, 2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3548, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4506, 4606, 4607, 4626, 4629, 4631, 5297, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

SPINAL CORD 2086-2089, 2091, 2094, 2097, 2099-2102, 4275, 4279, 4282, 4285, 4289, 4295, 4299, 4302, 4304, 4306, 4307, 5499-5511

SQUID 3159-3178, 3240, 3316, 3317, 5298-5317, 5367, 5423, 5424

STEERS 5084, 5162

STIMULANTS 5060

SULFUR 5084

SURFACE WATER 2659

SURGERY 4185-4187, 4800, 5058, 5059

SWEDEN 2718, 2719, 2842-2859, 2898, 3254, 3255, 3355, 3356, 3359, 3360, 3612, 3986, 4001, 4395, 4601, 4620, 4658, 4659, 4660, 4665, 4668, 4670, 4671, 4674, 4695, 4696, 4718, 4957-4965, 5163, 5164, 5381, 5741, 5742

SWINE 2637-2642, 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 2988-2990, 3045-3050, 3134, 3137, 3138, 3141-3143, 3213-3215, 3322-3324, 3387, 3393-3396, 3403, 3404, 3406, 3412, 3414, 3448, 3670, 3671, 3673, 3674, 3683, 3916, 4185-4187, 4251-4257, 4259-4262, 4474, 4729, 4735, 4907, 4928, 4929, 4931, 4932, 4934-4936, 5055, 5061, 5130-5132, 5437, 5544-5546, 5697-5703, 5723, 5822, 5826

TASMANIA 3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3572-3575, 3611, 3613, 3614, 3627, 3628, 3676-3679, 5345, 5346, 5380, 5382, 5391-5393, 5439-5441

TENNESSEE 2909-2911, 4602-4604

TERRESTRIAL 2628-2630, 2634-2637, 2640-2643, 2646-2648, 2650-2657, 2661, 2662, 2681, 2683, 2689-2693, 2696-2699, 2708, 2710-2716, 2721-2726, 2730-2736, 2744, 2745, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 2860, 2861, 2881, 2883, 2886, 2896-2898, 2905, 2910, 2911, 2919, 2935, 2936, 2940-2944, 2955, 2964, 2965, 2982-2990, 2992-2994, 3048, 3049, 3073-3075, 3078, 3081, 3103-3106, 3110, 3122-3126, 3129-3132, 3134, 3135, 3137-3139, 3141-3143, 3180, 3181, 3189, 3190, 3192-3203, 3211-3215, 3218-3220, 3222, 3223, 3241-3244, 3260-3266, 3268-3273, 3279-3291, 3300-3313, 3322-3325, 3333-3341, 3343, 3344, 3347-3356, 3358-3362, 3364-3367, 3370-3372, 3374-3383, 3392-3406, 3410-3415, 3440, 3448, 3451, 3452, 3454, 3456, 3458, 3459, 3466, 3481-3483, 3488-3492, 3499, 3500, 3510-3516, 3518-3525, 3527, 3528, 3530, 3531, 3533, 3549, 3550, 3558, 3559, 3561-3571, 3577-3590, 3599-3604, 3615, 3616, 3619-3621, 3631-3636, 3643-3647, 3649-3654, 3656-3663, 3669, 3672, 3675, 3681-3683, 3685, 3686, 3688-3690, 3693, 3704-3710, 3714, 3715, 3717, 3718, 3722-3726, 3733, 3735, 3742-3751, 3756, 3762-3768, 3774-3788, 3791, 3793-3796, 3800, 3801, 3809, 3813-3819, 3838, 3856-3863, 3868, 3873-3875, 3911-3916, 3918-3920, 3924, 3925, 3928-3930, 3933-3944, 3947, 3951-3953, 3961, 3962, 3964-3966, 3972-3977, 3982-3986, 3990, 3993, 3994, 3996-4001, 4015, 4016, 4019-4022, 4026, 4028, 4029, 4039-4059, 4070, 4081-4084, 4099, 4100, 4102, 4105, 4119-4140, 4147-4151, 4153-4163, 4184-4191, 4193, 4195-4209, 4221-4223, 4225-4228, 4231-4233, 4235-4246, 4250-4252, 4255, 4259-4263, 4266-4269, 4272-4274, 4276-4278, 4280, 4281, 4283, 4284, 4286-4288, 4291-4294, 4297, 4298, 4301, 4303, 4305, 4308, 4309, 4331, 4332, 4341, 4343, 4346-4353, 4358, 4359, 4362-4364, 4367-4377, 4380-4382, 4386, 4387, 4396, 4397, 4400-4405, 4411-4416, 4426, 4428, 4429, 4433, 4434, 4443-4448, 4450, 4451, 4453-4456, 4459-4461, 4463-4472, 4478-4498, 4512, 4513, 4515-4518, 4521-4523, 4525-4532, 4536, 4550, 4573, 4583, 4584, 4599-4601, 4606-4609, 4612, 4614, 4619, 4620, 4623-4626, 4629-4631, 4658, 4665, 4668, 4669, 4671, 4674, 4682, 4685-4687, 4689-4693, 4695-4698, 4713, 4729, 4730, 4732, 4735-4741, 4755-4758, 4767, 4771-4774, 4781, 4782, 4788-4790, 4800-4802, 4819-4821, 4823, 4838-4843, 4845-4861, 4865, 4877-4882, 4884, 4885, 4887-4890, 4893-4895, 4897-4905, 4928-4936, 4942, 4943, 5021-5025, 5028-5030, 5033, 5034, 5036-5048, 5051-5055, 5058-5064, 5073-5078, 5080, 5081, 5084, 5085, 5088, 5091, 5093, 5107-5110, 5113-5115, 5121, 5130-5132, 5135, 5137-5140, 5143-5145, 5148, 5149, 5151, 5154-5164, 5167, 5174-5198, 5200, 5205, 5207-5210, 5212, 5213, 5215, 5216, 5218-5227, 5229-5233, 5255, 5259-5266, 5268-5275, 5277, 5278, 5280-5282, 5284, 5318-5320, 5327, 5329, 5330, 5332-5344, 5347-5358, 5368-5373, 5383-5385, 5388-5390, 5394-5401, 5403-5405, 5407-5410, 5412-5419, 5425-5430, 5435, 5436, 5438, 5445-5451, 5460-5473, 5484, 5494-5497, 5513-5519, 5542, 5549-5555, 5559, 5566, 5568-5573, 5578, 5579, 5583, 5586, 5589-5592, 5597, 5599, 5602-5606, 5608, 5609, 5612, 5617-5627, 5643, 5652-5655, 5666, 5674-5679, 5681-5691, 5693, 5694, 5696-5710, 5721-5723, 5728-5743, 5747, 5751, 5752, 5754, 5758, 5762-5766, 5768, 5769, 5771, 5773, 5774, 5776,

5777, 5786-5789, 5801-5805, 5808, 5810, 5814-5822, 5824, 5826

TEXAS 2086-2089, 2091, 2094, 2097, 2099-2102, 3358, 3775-3788, 4275, 4279, 4282, 4285, 4289, 4295, 4299, 4302, 4304, 4306, 4307, 4859, 5124-5129, 5176-5185, 5730, 5735-5740

TRACE ELEMENTS 2683, 2699, 2703, 2736, 2900, 3110, 3145, 3333, 3334, 3397, 3398, 3417, 3451, 3461, 3488, 3521, 3535, 3643, 3646, 3799, 3921, 3987, 4203, 4263, 4448, 4500, 4567, 5025, 5064, 5073, 5074, 5081, 5088, 5091, 5093, 5140, 5165, 5200, 5211, 5273, 5286, 5404, 5407, 5409, 5410, 5565, 5594, 5760, 5823

TRANSPLACENTAL TRANSFER 2689-2693, 2696-2698, 2942-2944, 5081, 5091, 5135

TROUT 2812, 2826, 3109, 4866, 5206, 5482, 5547, 5548, 5724-5726

TURKEYS 3403, 3404, 3406, 3412, 3414, 3756, 3774, 4735, 4928, 4929, 4931, 4932, 4934-4936

TURTLES 1541, 1542, 1783, 2259, 2260, 2694, 2695, 2706-2713, 3019-3030, 3094-3097, 3332, 3908, 3909, 4112-4115, 4164, 4180, 4181, 4752, 4778-4780, 4792, 4793, 4798, 4799, 4803, 4804, 4808, 4809, 5199, 5240, 5248-5253

UNITED KINGDOM 2659, 2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834, 3127, 3402, 4147-4151, 4153-4159, 4191, 4192, 4194, 4270, 4354-4356, 4419, 4420, 4689-4693, 4866, 5174, 5186-5198, 5425-5430

UNITED STATES 2755, 2934, 3125, 3126, 3129, 3130, 3180, 3181, 3190, 3193-3198, 3211, 3212, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3374, 3515, 3516, 3518, 3519, 3549, 3550, 3559, 3562-3567, 3577, 3578, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 3805, 3927, 4014, 4268, 4269, 4272, 4273, 4331, 4332, 4341, 4343, 4346-4349, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 4463, 4605, 5036, 5214, 5264-5266, 5268-5270, 5318-5320, 5327, 5330, 5333-5340, 5347-5349, 5368, 5369, 5383-5385, 5394-5401, 5438, 5445-5447, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

URBAN AREAS 2680, 2682, 2876, 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102, 3128, 3224, 3318, 3517, 3592, 3668, 4182, 4183, 4271, 4378, 4421, 4731, 4753, 4814, 4815, 5267, 5360, 5431, 5825

VEGETABLES 3280, 3283, 3286

VEGETATION 3282, 3285, 3287, 3288, 3300-3305, 3335-3341, 3665, 4800, 5058, 5059, 5084

VENEZUELA 3393-3396, 4259-4262

VIRGINIA 1750-1752, 1878-1880, 2132-2134, 2496-2498, 2755, 2934, 3121, 3157, 3158, 3189, 3192, 3245-3247, 3319-3321, 3558, 3561, 3605-3607, 3805, 3927, 4014, 4265, 4326, 4327, 4388-4390, 4422-4425, 4605, 4754, 4760, 4761, 4794-4797, 5214, 5258, 5295, 5296, 5329, 5332, 5374-5376, 5432-5434, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

VITAMINS 3448, 5062, 5063, 5255, 5257, 5826

VOLES 3333, 3334, 3858-3863, 3873-3875

WASHINGTON 2680, 2682, 2720, 3155, 3156, 3399, 3400, 3405, 3545-3547, 4182, 4183, 4315, 4317, 4323, 4325, 4581, 4582, 4731, 4753, 4814, 4815, 4914, 5024, 5167, 5442, 5443, 5825

WATER POLLUTION 1638, 1654, 1728, 1729, 1731, 1732, 1742-1744, 1750-1752, 1760, 1815-1817, 1821, 1836-1838, 1840, 1859, 1860, 1862, 1863, 1870-1872, 1878-1880, 1883, 1962, 2065-2068, 2126-2128, 2132-2134, 2137, 2163-2166, 2179, 2181, 2182, 2185, 2190-2193, 2226, 2227, 2240, 2242, 2254-2258, 2261, 2309-2311, 2317, 2363-2366, 2478, 2479, 2481, 2482, 2488-2490, 2496-2498, 2501, 2628-2631, 2631, 2632, 2632, 2633, 2633-2636, 2638, 2639, 2644, 2645, 2649, 2658-2661, 2663-2677, 2680, 2682, 2684, 2704-2706, 2717-2719, 2737-2743, 2747-2749, 2752, 2756-2762, 2762-2764, 2764, 2765, 2765, 2766, 2766, 2767, 2767, 2768, 2768, 2769, 2769-2775, 2775, 2776, 2776-2783, 2783, 2784, 2784, 2785, 2785, 2786, 2786, 2787, 2787, 2788, 2788, 2789, 2789, 2790, 2790, 2791, 2791, 2792, 2792, 2793, 2793, 2794, 2794, 2795, 2795, 2796, 2796, 2797, 2800, 2800, 2801, 2801, 2802, 2802, 2803, 2803, 2804, 2804-2806, 2806, 2807, 2807-2809, 2812, 2814, 2818, 2820, 2823, 2826, 2828, 2831, 2833, 2835, 2862-2865, 2869-2880, 2882, 2884, 2885, 2894, 2895, 2899, 2901-2903, 2908, 2909, 2909-2915, 2917, 2918, 2938, 2939, 2945-2950, 2954, 2956, 2957, 2961, 2970-2983, 2985-2987, 2989, 2991, 2995, 2996, 3000-3011, 3011, 3012, 3012-3018, 3025, 3027-3029, 3031, 3031, 3032, 3032, 3033, 3033, 3034, 3034-3036, 3036, 3037, 3037, 3038, 3038, 3039, 3039, 3040, 3040, 3041, 3041-3047, 3050-3052, 3057, 3065, 3067-3072, 3076, 3077, 3079, 3080, 3082-3084, 3091-3093, 3098-3102, 3107-3109, 3111-3119, 3121, 3128, 3144, 3146-3178, 3204-3209, 3217, 3221, 3224-3235, 3240, 3245-3253, 3255-3259, 3267, 3274-3278, 3292-3299, 3314-3321, 3326-3331, 3342, 3345, 3357, 3363, 3368, 3369, 3373, 3384-3386, 3391, 3399-3401, 3405, 3416, 3418-3421, 3426-3439, 3441-3447, 3460, 3462-3465, 3467-3480, 3484-3487, 3493, 3501-3505, 3517, 3534, 3536-3547, 3572-3576, 3591-3598, 3605-3614, 3617, 3618, 3622-3628, 3637-3642, 3655, 3664-3668, 3676-3680, 3684, 3687, 3691, 3692, 3694-3703, 3711-3713, 3716, 3719-3721, 3727-3732, 3734, 3736, 3790, 3792, 3797, 3798, 3802-3804, 3806-3808, 3810-3814, 3816, 3818, 3834-3836, 3839-3855, 3864-3867, 3869-3872, 3876-3890, 3893-3902, 3908, 3909, 3917, 3922, 3923, 3926, 3931-3934, 3936-3939, 3941, 3948-3950, 3954-3960, 3963, 3967-3971, 3988, 3989, 3991, 3992, 3995, 4017, 4018, 4023-4025, 4027, 4033-4040, 4042-4045, 4047, 4048, 4050-4052, 4073-4080, 4085, 4093-4098, 4101, 4103, 4104, 4106, 4107, 4109-4111, 4116-4118, 4129, 4130, 4132-4134, 4164-4183, 4192, 4194, 4210-4215, 4224, 4229, 4230, 4234, 4247-4249, 4258, 4264, 4265, 4271, 4310-4327, 4354-4357, 4360, 4361, 4378, 4379, 4383-4385, 4388-4395, 4398, 4399, 4406-4410, 4417-4425, 4430-4432, 4435-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4499, 4501-4505, 4514, 4519, 4520, 4524, 4533-4549, 4551-4563, 4568-4597, 4599, 4600, 4602-4604, 4608, 4610-4619, 4621-4625, 4627, 4628, 4630, 4647, 4649-4658, 4660-4662, 4664, 4666, 4667, 4669, 4670, 4672, 4676-4684, 4688, 4694, 4697-4705, 4707-4712, 4714-4727, 4731, 4742-4754, 4759-4761, 4768-4770, 4775-4780, 4783-4787, 4791-4799, 4803-4815, 4822, 4824-4828, 4837, 4844, 4867-4876, 4883, 4886, 4891, 4892, 4896, 4906, 4908-4919, 4930, 4933, 4937-4941, 4945-4965, 5020, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5065-5072, 5094-5106, 5111, 5112, 5116-5120, 5122-5129, 5136, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166-5173, 5175-5199, 5206, 5217-5219, 5221-5224, 5226, 5234-5240, 5248-5253, 5258, 5267, 5285, 5287-5296, 5298-5317, 5345, 5346, 5359-5367, 5374-5382, 5386, 5387, 5391-5393, 5402, 5411, 5420-5424, 5431-5434, 5439-5444, 5452-5459, 5474-5483, 5499-5514, 5516, 5518, 5547, 5548, 5556-

5558, 5560-5564, 5569, 5570, 5572, 5574, 5576, 5577, 5580-5582, 5584, 5585, 5593, 5595, 5596, 5598, 5600, 5601, 5610, 5611, 5613-5618, 5620, 5622, 5623, 5625, 5641, 5644, 5645, 5648-5651, 5656-5665, 5667-5673, 5724-5727, 5730, 5735-5740, 5745, 5750, 5759, 5761, 5770, 5772, 5784, 5785, 5790-5800, 5807, 5812, 5825

WATERFOWL 2747, 2748, 2756-2759, 2763-2766, 2777, 2785-2788, 2877, 2878, 2887-2893, 2904, 2906, 2907, 2920-2933, 2939, 2949-2953, 2958-2960, 2962, 2963, 2966-2970, 2973, 2974, 2982, 2983, 2985-2987, 2989, 3013-3024, 3043-3046, 3053-3056, 3058-3064, 3085-3090, 3125, 3126, 3129, 3130, 3179-3198, 3211, 3212, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3355, 3356, 3359, 3360, 3407-3409, 3430-3432, 3494-3498, 3506-3509, 3515, 3516, 3518, 3519, 3549-3567, 3577, 3578, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 3701-3703, 3729-3732, 3813, 3814, 3816, 3818, 3837, 3879, 3883, 3898-3902, 3933, 3934, 3936-3939, 3941, 3946, 3970, 3971, 3978-3981, 3986, 4001-4013, 4017, 4018, 4023, 4024, 4030-4035, 4039, 4040, 4042-4045, 4047, 4048, 4050-4052, 4061-4069, 4077-4080, 4086-4092, 4108, 4129, 4130, 4132-4134, 4192-4194, 4216-4220, 4268, 4269, 4272, 4273, 4329-4349, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4426, 4428, 4429, 4507-4511, 4537, 4598, 4610, 4611, 4613, 4618, 4648, 4762-4766, 4944, 5218, 5219, 5221-5224, 5226, 5228, 5264-5266, 5268-5270, 5318-5340, 5347-5349, 5368, 5369, 5382-5385, 5394-5401, 5438, 5445-5447, 5485-5492, 5496, 5513, 5514, 5516, 5518, 5524-5541, 5558, 5569, 5570, 5572, 5575, 5617, 5618, 5620, 5622, 5623, 5625, 5642, 5651, 5746, 5753, 5783, 5809, 5813

WISCONSIN 1638, 2696-2698, 2755, 2895, 2934, 3805, 3927, 4014, 4605, 5085, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811

WOOD PRESERVATIVES 2716, 3466, 3580, 4823, 5205

WORMS 3202, 3570, 4352, 5343, 5727

WYOMING 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812

YUGOSLAVIA 4277

Algeria 3693, 3704, 3733, 3857

Algonquin Park 2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782

Antarctica, Syowa Station 3073, 3440, 3806, 3856, 5747, 5754, 5810, 5814

Arctic 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794

Arizona, Kiabab National Forest 4838-4843, 4845-4858

Arkansas 3891, 3892

Arkansas, Garland 2838-2841

Atlantic Ocean 4676-4680, 5116-5118

Australia 3581-3584, 3644, 3646, 3652, 4184, 4190, 4363, 4364, 5082, 5083, 5087, 5351-5353, 5404, 5407, 5409, 5410, 5756, 5757, 5775, 5824

Australia, Queensland 2700-2702, 2730-2734, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283

Australia, Queensland, Brisbane 4266

Australia, Tasmania, South Esk River 3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3572-3575, 3611, 3613, 3614, 3627, 3628, 3676-3679, 5345, 5346, 5380, 5382, 5391-5393, 5439-5441

Australia, Victoria, East Gippsland and French Island 3500, 3587, 3588, 4513, 5356

Belgium 2683, 2699, 2736, 3397, 3398, 3451, 3488, 3719, 3720, 3727, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273

Belgium, Antwerp, Meuse River 4783, 4787

Belgium, Meuse River, Antwerp 3475-3479, 3622-3626, 4784-4786

Belgium, rural farms 3110

Bermuda, Harrington Sound 4810-4813

California 2940, 2941, 3353, 3903-3907, 4019, 4020, 4054-4057, 4865

California (S) 2914, 3803

California, Davis 2630, 4860, 4861

California, Tracy 3536

Canada 2746, 2793-2797, 2940, 2941, 3067-3072, 3274-3278, 3435-3439, 3449, 3450, 3637-3641, 3850-3855, 4019, 4020, 4093-4098, 4406-4410, 4676-4680, 4728, 4800, 4820, 4821, 4844, 5058, 5116-5120, 5135, 5657-5661, 5790-5794

Canada, Alberta 2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673

Canada, British Columbia, SE, Windermere Valley 5086

Canada, Great Lakes, Gamaraska River 2814, 2818, 2820, 2823, 2828, 2831, 2833, 2835, 2917, 5483

Canada, northwestern Manitoba 3522

Canada, Ontaria, Clay Lake 4661, 4662, 5111, 5112

Canada, Ontario 2813, 2826, 3109, 3201, 3388-3390, 4476, 5133, 5134, 5206, 5482, 5547, 5548, 5697-5708, 5724-5726

Canada, Ontario, Georgian Bay, Tadenac Lake 2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390

Canada, Ontario, Kinoje Lake 2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782

Canada, Ontario, Middlesex County 3705-3708, 3710

Canada, Ottawa 3649, 3654, 4732

Canada, Quebec, Lac Ste-Anne 2633, 4867-4876

Canada, Saskatchewan, Saskatoon 4274, 4281, 4288, 4293

Cape Hatteras, Gulf Stream 4622

Chesapeake Bay 3125, 3126, 3129, 3130, 3180, 3181, 3190, 3193-3198, 3211, 3212, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3515, 3516, 3518, 3519, 3549, 3550, 3559, 3562-3567, 3577, 3578, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 4268, 4269, 4272, 4273, 4331, 4332, 4341, 4343, 4346-4349, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 5264-5266, 5268-5270, 5318-5320, 5327, 5330, 5333-5340, 5347-5349, 5368, 5369, 5383-5385, 5394-5401, 5438, 5445-5447

Colorado 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807

Colorado, Gunnison 5245-5247

Connecticut 3315, 3485, 3666, 4248, 4330, 4333, 4340, 4345, 5421

Crossbreed barrows, wt 91-107 kg 2681

Denmark, West Jutland, Ringkobing Fjord 4426

Egypt, Nile River and canals 2875, 3736, 3871, 3957, 3960, 3967, 4110, 5585

England, central 3300-3305, 3335-3341

England; Cumbria 4420

England; Cumbria, Ullswater 4354-4356, 4419

England, East Midlands, River Trent 4192, 4194

Finland 3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872, 4937-4941

Florida 4494-4498

Florida, Apalachicola River 2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823

Florida, East coast 3094-3097, 4112-4115

Florida, Loxahatchee National Wildlife Refuge 3665

Florida, northern Gulf Coast, Dog Island 4634

France 3351, 4185-4187, 4882

France, Talence 4699-4705, 4715

Georgia 3756, 3774, 5060

Georgia, Millen 2678

Germany 3403, 3404, 3406, 3412, 3414, 4785, 4816-4818, 4928, 4929, 4931, 4932, 4934-4936, 5727

Great Britain, Derbyshire, River Ecclesbourne 3127, 4270

Great Lakes 3878, 3881, 3882, 3887, 3890, 3893, 3896, 3897

Great Lakes, Lake Ontario 3880, 3885, 3889, 3894, 3895

Greece, North Aegean Sea 3217, 3232, 4360, 4383, 4384, 4621, 4650, 4651

Greenland 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794

Hawaii 4707, 4710

Idaho 5121

Idaho, Idaho National Engineering Laboratory, Test Reactor Area 4193

Idaho, University of Idaho 5081, 5091

Illinois 3415, 3709, 3795, 3796, 3915, 5054, 5549, 5550, 5592, 5758, 5815, 5816

Illinois, Savanna, Ayers Sand Prairie Nature Preserve, Thomson-Fulto* 4380-4382

Illinois, Vermilion and Shelby Counties 2919, 3048, 3049, 3103-3106, 3997-4000, 4081-4084, 4119-4122, 5559, 5602-5606, 5652-5655, 5674-5678, 5762-5766, 5786-5789, 5801-5805, 5820, 5821

India 3514, 4199, 4267, 4550, 5255, 5263

India, Bombay 4264, 4398

India, Periyar River 4357, 4361, 4430-4432, 4435

India, Periyar River and Bombay 4392, 4399, 4417

Indian Ocean (W), Seychelles 4545, 4548, 4549, 4553, 4627, 4628, 4664, 4672, 4708, 4709, 4711, 4712

Iowa 4201, 5131

Iran 2710, 2712, 2714, 2721-2723

Iran, Nowrus oil field 4778-4780, 4792, 4793, 4798, 4799, 5248-5253

Ireland 3911-3914

Italy, Rome 4736-4741

Italy, Sicily, Augusta Bay 2916, 2937, 3026, 3030, 3035, 3042

Japan 2650-2657, 2666-2668, 2675-2677, 2769, 2783, 2789, 2957, 3025, 3032, 3050, 3108, 3306-3313, 3376-3383, 3656-3663, 3712, 3721, 3810, 3841, 3847, 4167, 4171, 4172, 4174, 4239-4246, 4465-4472, 4525-4532, 4824, 4837, 4898-4905, 5020, 5041-5048, 5154-5161, 5234-5239, 5412-5419

Japan, Aichi 2664

Japan, Aomori 2792, 3057, 3849, 4176

Japan, Hokkaido, Kushiro City 4608

Japan, Hokkaido, Nemuro City 4584

Japan, Hongkong 3792

Japan, Iwate 2791, 3052, 3848, 4175

Japan, Kagawa 2670

Japan, Kawana, east Izu Peninsula 3159-3178, 3240, 3316, 3317, 5298-5317, 5367, 5423, 5424

Japan, Matsuyama City, Tsubaki shrine 2708, 3203, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5344

Japan, Nagara River watershed 4805-4807

Japan, Osaka 2663, 2672, 2749, 2880, 3790, 4165

Japan, Sanin 2762, 3080, 4178

Japan, Saniu 3811, 3870

Japan, Shikoku 2665, 2669, 2767, 2978, 3812, 4168

Japan, Shiranui Sea 4573, 4583, 4599, 4600, 4612, 4614, 4623, 4625, 4630, 4658, 4669, 4682, 4697, 4698

Japan, Shiranui Sea, Minamata Bay 4536, 4619

Japan, Shizuoka 2775, 3011, 3834, 4169

Japan, Taiji, southern Kii Peninsula 3159-3178, 3240, 3316, 3317, 5298-5317, 5367, 5423, 5424

Japan, Toltori 2673

Japan, Tottori 2760

Japan, Wakayama 2671, 2674, 2776, 3012, 3836, 4170

Kansas 5062, 5063

Kansas City, stockyards 4140

Kentucky 4730, 4801, 4802, 5084

Kentucky, Harrodsburg 3225

Kentucky, Lexington 3120, 3210, 3216

Kenya 2628

Lake Huron, Saginaw Bay 4946, 4952

Lake Michigan, northwestern islands 2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813

Lake Ontario, Roosevelt Beach 4948, 4954

Lake Superior, Keweenaw Bay 4950

Long Island Sound 2947, 3209, 3576, 5136

Louisana, Lake Providence, Lake Bruin, Lake St. John 2987, 2989, 3816, 3818, 3939, 3941, 4045, 4048, 4134, 5224, 5226, 5516, 5518, 5572, 5620, 5623

Louisiana 2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099, 4100, 4102, 4123-4128, 4131, 4135-4139, 4447, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5484, 5494, 5515, 5517, 5519, 5542, 5566, 5568, 5571, 5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5666, 5751, 5752, 5771, 5773, 5808

Louisiana, Franklin 5080

Louisiana, Lake Providence 2982, 2985, 2986, 3813, 3933, 3936-3938, 4039, 4042-4044, 4047, 4050-4052, 4129, 4132, 4133, 5221, 5223, 5513, 5569, 5617, 5622, 5625

Louisiana, Lake Province, Lake Bruin, Lake St. John 2983, 3814, 3934, 4040, 4130, 5219, 5514, 5570, 5618

Louisiana, Mississippi River, near Baton Rouge 2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800

Lower Hudson River (106 mi N of NYC) 3900, 3901

Lower Hudson River (160 mi N of NYC) 3902

Lower Hudson River near Albany, NY 3883

Maine 3315, 3485, 3666, 4248, 5421

Maine, Portland 2752, 3416, 3664, 3798, 4822, 4913, 4915

Maine, Woods Pond 4947, 4953

Marland, Laurel 4367, 4370

Maryland 2744, 2745, 2883, 2964, 2965, 3081, 3179, 3879, 3898, 4003, 4329, 4598

Maryland, Cecil County, North East 5589, 5590

Maryland, Chesapeake Bay area 3251, 3471, 3538, 4312, 5288

Maryland, Chesapeake Bay area tributaries 2705, 2706, 3147, 3152, 3463, 3465, 3542, 4313, 4569, 4574, 5292

Maryland, Chesapeake Bay area, tributaries 2704, 2717, 2901, 2902, 2912, 3036, 3146, 3418-3420, 3426, 3462, 3537, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311, 4393, 4568, 4652, 5287, 5378, 5595, 5596, 5601, 5648

Maryland, Eastern 3976, 3994, 4028, 4029, 4105

Maryland, Laurel 4369, 4371, 4372, 4374

Maryland, Laurel, Patuxent Wildlife Refuge 4368, 4373, 4375

Maryland, Washington County, Hancock, Round Top Mountain 3973-3975

Massachusetts 3315, 3485, 3666, 4248, 4330, 4333, 4340, 4345, 5421

Massachusetts, Buzzards Bay and Acushnet River 2996

Massachusetts, Cotuit Sound 4775

Massachusetts, Greenfield, Green River 3128, 3224, 3318, 3517, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431

Massachusetts, New Bedford area 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 3065, 3084, 3102

Mexico (NW), Sinaloa, Huisache-Caimanero lagoon system 2863, 3802, 3807, 3864, 3866, 5610, 5644, 5662, 5761, 5797

Mexico (NW), Sinaloa, Huisache-Caimanreo lagoon system 3839, 3840

Mexico (NW), Sinaloa, Huisache-Caimanuo lagoon system 2870, 5795

Mexico (NW), Sinaloa, Huisache-Ciamaneno Lagoon complex 2864

Mexico (NW), Somora, Yavaros lagoon system 2873, 2874

Mexico (NW), Sonora, Yavaros lagoon system 2862, 2863, 2865, 2869-2872, 3797, 3802, 3808, 3835, 3839, 3840, 3864-3866, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5641, 5645, 5662, 5663, 5759, 5761, 5770, 5784, 5785, 5795-5797

Mexico (NW), Sonora, Yavaros lagoon system, Mexico (NW), Sinaloa, Hu* 5600, 5664

Mexico (NW), Sonora, Yavoros lagoon system 5644

Mexico(NW), Sinaloa, Huisache-Caimanuo lagoon system 2872

Mexico, Bay of Campeche, Laguna Madre 3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240

Michigan 4945, 4949, 4951, 4955, 4956, 5065-5072, 5162, 5450-5459

Michigan, Ann Arbor 2684

Minnesota 2694, 2695

Minnesota, Mississippi River 3332

Mississippi 5079

Missouri 4276, 4314, 4316, 4318-4322, 4324

Missouri, Boone County 5587, 5588

Missouri, Boone County, Devil's Icebox and Hunter Caves 5748, 5755

Missouri, Columbia 4819

Netherlands 2707, 2709, 2727-2729, 2897

Netherlands, coast 3066

Netherlands, Eindhoven, S.E., Dutch Kempen region 3202, 3570, 4352, 5343

Nevada, Lahontan Reservoir 4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4577-4580, 4615-4617, 4649, 4654-4657, 4694

New Bedford, MA area 2876

New Jersey 3879, 3898

New Jersey, southwestern 5728

New Mexico 3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408

New York 3282, 3285, 3287, 3288, 3879, 3898, 3899, 4955

New York, Hudson and Niagara Rivers 3980

New York, Hudson River 2904, 2906, 2907, 2951-2953, 3058-3064, 3085-3090, 4090-4092, 4108, 5540, 5541

New York, Hudson River and Long Island 2920-2923, 4002, 4004-4006, 5485-5488

New York, Hudson River area 2924-2927, 4007-4009, 5489, 5490

New York, Hudson River region 2962, 2963

New York, Ithaca 3262-3264, 3289-3291

New York, Lake Ontario 2887, 2890, 3978

New York, Long Island 2888, 2928, 2929, 4012, 5492

New York, Long Island and Lake Ontario 2889, 3979

New York, Long Island and Niagara River 3054-3056, 4086-4089, 5536-5539

New York, Niagara and Hudson Rivers 2891-2893, 3981

New York, Niagara Falls 3877, 3886, 3888

New York, Niagara Falls, Cayuga Creek 3884

New York, Niagara River 2958-2960, 2966-2969, 3018-3021, 3023, 3024, 4030-4032, 4061-4067, 4069, 5498, 5524-5532, 5534, 5535

New York, Niagara River and Long Island 3053

New York, Syracuse 3280, 3283, 3286

New York, Syracuse, Ley Creek Sewage Treatment Plant 3289-3291

New York, Westchester County 2930, 2933, 4010, 4011, 4013, 5491

New York, Westchester County and Long Island 2931, 2932

North Carolina, Belews Lake 5122, 5123

North Dakota 2689-2693

Northwest Atlantic 2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4096, 4406-4410, 5119, 5120, 5657-5661, 5790-5794

Norway 2785-2788, 3043-3046, 3352, 3430-3432, 3701-3703, 3726-3732, 4077-4080, 4881, 5558, 5651

Norway, Svalbard 2758, 2759, 2877, 2878, 2973, 2974, 3970, 4034, 4611

Norway, Svalbard, Spitsbergen 2747, 2748, 2756, 2757, 2763-2765, 2939, 2949, 2950, 2970, 3971, 4017, 4018, 4023, 4024, 4033, 4035, 4537, 4610, 4613, 4618

Ohio 4945, 4951, 4956

Ohio, Newtown 3225

Ohio, Oxford, Bachelor Wildlife Reserve 3333, 3334

Ohio, Urbana 3858-3863, 3873-3875

Ontario 4862-4864

Oregon, coast 3148, 3149, 3153, 3154, 3539, 3540, 3543, 3544, 4211, 4212, 4214, 4215, 4501, 4502, 4504, 4505, 4570, 4571, 4575, 4576, 5289, 5290, 5293, 5294

Oregon, Corvallis area 3651

Pacific Ocean 2639, 2644, 2649, 2658, 2660, 2738-2740, 2742, 2743, 2918, 3034, 3079, 3107, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 3804, 3842, 3869, 3876, 4166, 4173, 4177, 4179, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4585-4597, 4647, 4666, 4667, 4681, 4688, 4714, 4716-4727, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5094-5106, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444

Pacific Ocean, Hawaii 4683, 4684

Pacific Ocean, northeast 2638, 2645, 2737, 2741

Papua New Guinea, Port Moresby 4646, 4663, 4673, 4675, 4706

Parry Sound 2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782

Pennsylvania 5721, 5722

Poland, Gdansk Bay 3182-3186, 3494-3498, 3551-3555, 4216-4220, 4334-4338, 4507-4511, 4762-4766, 5201-5204, 5241-5244, 5321-5325

Rhode Island 3315, 3485, 3666, 3879, 3898, 4248, 5421

Rhode Island, Narragansett Bay 4770

Rhode Island, Salt Pond 3629, 3630

Saudi Arabia, Arabian Gulf 4778-4780, 4792, 4793, 4798, 4799, 5248-5253

Scotland 3392, 4141-4146, 5057

Scotland, Loch Faskally 4968, 4969, 4971, 4973, 4975, 4977, 4979, 4981, 4983, 4985, 4987, 4989, 4991, 4994, 4996, 4998, 5000, 5002, 5004, 5006, 5008, 5010, 5012, 5014, 5016, 5018

Scotland, Loch Faskally (Pitlochry) 4966, 4967, 4970, 4972, 4974, 4976, 4978, 4980, 4982, 4984, 4986, 4988, 4990, 4992, 4993, 4995, 4997, 4999, 5001, 5003, 5005, 5007, 5009, 5011, 5013, 5015, 5017, 5019

South Africa 3144, 3228, 3292, 3293, 3295, 3297-3299, 3314, 3460, 3484, 3493, 3505, 3534, 3596, 3655, 3664, 4210, 4247, 4310, 4418, 4499, 4533, 4759, 4791, 5285, 5364, 5411, 5420

South Africa, Cape Town, Bloubergstrand 3235, 3469, 3502, 3598, 4385, 4769, 5366

South Africa, Eastern Cape 2908, 2909, 2954, 2975, 2977, 3037, 3038, 3091, 3843, 3991, 3992, 4025, 4036, 4037, 4074, 4075, 4109, 5598, 5611, 5614, 5615, 5649

South Africa, Knysna Heads 3230, 3249, 3252, 3468, 3470, 3472, 3501, 3503, 3504, 3597, 3608, 3610, 4379, 4391, 4394, 4768, 4776, 4777, 5365, 5377, 5379

South Carolina 3111-3119, 3748, 4742-4750

South Carolina, Aiken, Savannah River Plant 2679

South Carolina, Bulls Bay 3250, 4751

South Carolina, Orangeburg 2678

South Dakota 5130, 5132

Spain 2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819

Spitbergen 2973, 2974, 4034

Spitsbergen 2758, 2759, 2877, 2878, 3970, 4611

Sweden 2718, 2719, 2842-2859, 3255, 3354-3356, 3359, 3360, 3612, 3648, 3986, 4001, 4395, 4653, 4659, 4660, 4670, 4957-4965, 5163, 5164, 5231, 5381, 5406, 5741, 5742

Sweden, Eman River system 3254

Sweden, national park of Stora Sjofallet and Sjaunja Bird Preservati* 4620

Sweden, southern area 2898

Sweden, vicinity of Sjaunja Bird Preservation area 4601, 4665, 4666, 4671, 4674, 4695, 4696, 4713

Tennessee, Holston River 4602-4604

Texas 3358, 3775-3788, 5124, 5176-5185, 5729-5740

Texas, Martin Lake watershed 5125-5129

Texas, West, rodeo and fair grounds and Fort Hancock 4859

United Kingdom 4147-4151, 4153-4159, 4191

United Kingdom, Cumbria, Sellafield 3402, 5174

United Kingdom, Huntingdon 4689-4693, 5425-5430

United Kingdom, Kent, Headcorn 4866

United Kingdom, West Cumbria 2661, 3401, 4930, 4933, 5175

United States, 15 states 4014

Venezuela 3393-3396, 4259-4262

Virginia 3189, 3192, 3558, 3561, 5329, 5332

Virginia, Back Creek 3121, 3157, 3158, 3319-3321, 4265, 4326, 4327, 4422-4425, 4754, 4760, 4761, 4794-4797, 5258, 5295, 5296, 5432-5434

Virginia, Blacksburg 3187, 3188, 3191, 3556, 3557, 3560, 4339, 4342, 4344, 5326, 5328, 5331

Virginia, Tidewater region 3245-3247, 3605-3607, 4388-4390, 5374-5376

Wales, Tywi River catchment 2659

Washington 2631, 2632, 2720, 4515, 5024, 5442, 5443

Washington, Duwamish Waterway 2680, 2682, 4182, 4183, 4731, 4753, 4814, 5825

Washington, Hanford 3399, 3400, 3405, 5167

Washington, Pullman 4914

Washington, Seattle, Lake Washington and Lake Union 3155, 3156, 3545-3547, 4315, 4317, 4323, 4325, 4581, 4582

West Germany, Giessen 5460-5473

West Germany, Lueneburg heath 3410, 3411, 3413, 4412, 4414, 4416, 4433, 4434, 4942, 4943, 5038-5040

Wisconsin 5056, 5085

Wisconsin, Lower Fox River, Little Lake Butte des Morts 2895

Wisconsin, Madison 2716, 3466, 3580, 4823, 5205

Wyoming 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807

Yugoslavia, small farms up to 5000 m from lead smelter 4277

Acetamide, 2,2-dichloro-N-[1-(4-chlorophenyl)-2-hydroxy-2-(1H-imidazol-1-yl)ethyl]-, monohydrochloride, [R-(R*,R*)]- (9 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-, [R-(R*,R*)]- (9 CI) 2026, 2029

Acetanilide, 4'-(3-hydroxy-2-(isopropylamino)propoxy)- (8 CI); Acetanilide, N-(4-(3-hydroxy-2-((1-methylethyl)amino)propoxy)phenyl)- (9 CI) 2030

Acetic acid, (2,4-dichlorophenoxy)- 2021, 2023

Acetic acid, (2,4,5-trichlorophenoxy)- 2-4

Acetic acid, trichloro- 2023

Aluminum 2024-2030

Ammonium, isotope of mass 241 2031

Ammonia 2032

Aniline, 2,3,4,5,6-pentachloro- (9 CI); Benzene, pentachloroamino- (9 CI) 2030-2031, 2035-2036

Aniline, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-amino- (9 CI) 2035-2071

Aniline, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-amino- (9 CI) 2072-2077

Antimony 2078, 2079

Anthracenemethanol 2080

Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI) 2081

Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI) 2082

Antimony 800, 804, 1881, 1882, 2000

Arachidic 1242 [No postings in CHEMLIST] 695, 1836, 2084

Arachidonic 1254 8-11, 699-704, 1894-1901, 2085-2090

Arachidonic 1260 10-20, 695, 849, 1889-1893, 2000-2005, 2084, 2087-2091

Arachidonic 1010 12-15, 2090-2096

Arsenic 21-25, 642-645, 1840-1854, 2000-2726, 2078, 2097-2101

Arsenic acid [AsO(OH)3] 2726-2734

Asbestos 2735

Barium 2735-2743

Benz[a]anthracene 2K-32

Benzamide, N-(((4-chlorophenyl)amino)carbonyl)-2,6-difluoro- 1555-1559, 2744, 2745

Benzene, chloro- 2749

Benzene, hexachloro- 98-99, 800-804, 1810-1814, 2714-2718, 2721-2727, 2747-2757, 2757, 2758, 2755-2807, 2807-2811, 2840-2844

Benzene, m-dibromo- (6 Cl); Benzene, 1,3-dibromo- (9 Cl) 2812

Benzene, o-dichloro- (6 Cl); Benzene, 1,2-dichloro- (9 Cl) 2813, 2814

Benzene, p-dichloro- (6 Cl); Benzene, 1,4-dichloro- (9 Cl) 2815, 2816

Benzene, pentachloro- 2817, 2818

Benzene, 1,2,3-trichloro- 2819, 2820

Benzene, 1,2,3,4-tetrachloro- 2821-2823

Benzene, 1,2,3,5-tetrachloro- 2824, 2825

Benzene, 1,2,4-trifluoro- 2826

Benzene, 1,2,4-trichloro- 2827, 2828

Benzene, 1,2,4,5-tetrachloro- 2829-2831

Benzene, 1,3-dichloro- 2832, 2833

Benzene, 1,3,5-trichloro- 2834, 2835

Benzeneacetic acid, 2-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester 2836

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester 2815-2818, 2839-2788, 2837-2841

Benzenesulfonamide, 4-amino-N-(3,5-dimethoxy-4-pyrimidinyl)- 2838-2838

Benzidine, dichloro- (6 Cl); [1,1'-Biphenyl]-4,4'-diamine, dichloro- (9 Cl) 2842-2847

Benzo[a]pyrene 4K-46, 800-878, 2848-2850, 2849-2851, 2852, 2853, 2854-2856

Benzophenone, 4,4'-dichloro- (6 Cl); Methanone, bis(4-chlorophenyl)- (9 Cl) 2857, 2858

Benzylamine, N-ethyl-N-phenyl- (9 Cl); Benzenemethanamine, N-ethyl-N-phenyl- (9Cl) 2859

Bephenium 2K1, 2K2, 2K3, 2K4

BHC, total (No postings in CHEMLINE) 2K5-2K6, 2K8, 2K9, 2K10-2K11, 2K12-2K13

Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro-, homo (9 CI) [illegible]

Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI) [illegible]

Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI) [illegible]

Boron [illegible]

Bromine [illegible]

Cadmium [illegible]

Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI) [illegible]

Calcium [illegible]

Carbamic acid, (5-(phosphino)-1H-benzimidazol-2-yl)-, methyl ester [illegible]

Carbamic acid, methyl-, 3,3-dihydro-2,2-dimethyl-7-benzofuranyl ester (8 CI); 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate (9 CI) [illegible]

Carbon, isotope of mass 14 [illegible]

Cerium [illegible]

Cesium [illegible]

Cesium, isotope of mass 137 [illegible]

Chlordane [illegible]

Chlordane (8 CI); Methano, chlorinated (9 CI) [illegible]

Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI) [illegible]

Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI) [illegible]

Chromium [illegible]

Cobalt [illegible]

Cobalt, isotope of mass 60 [illegible]

Copper [illegible]

Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI) [illegible]

Curium [illegible]

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI) 2697-2711, 2727-2733, 2737-2738, 2795, 2802, 2804-2805

Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta,3alpha,4beta,5alpha,6beta)- (9 CI) 770, 771, 2705-2706

Cyclohexane, 1,2,3,4,5,6-hexachloro-, delta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3alpha,4beta,5alpha,6beta)- (9 CI) 772

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI) 2705-2706

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,8,9,9a-hexahydro-4-hydroxy-8-methoxy- 2737-2741

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,9a-tetrahydro-4a-hydroxy-4-methoxy-, (6aR-cis)- 774-778, 2742-2746

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,alpha,8,9,9a,alpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI) 2737-2741

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,alpha,9a-alpha-tetrahydro-4-methoxy- (8 CI) Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,9a-tetrahydro-4-methoxy-, (6aR-cis)- (9 CI) 780-782, 2012, 2742-2774

Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (3-benzyl-2-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl)methyl ester (9 CI) 2775-2780

Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester 2012, 2782

Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl) methyl ester 1954

EDT, tetsil (No postings in CHEMLINE) 400-401, 444-445, 790-792, 840-842, 2010-2014, 2230-2232, 2782-2786, 2802, 2805, 2808, 2809, 2814, 2820-2822, 2826-2828

Dibenz[b,e][1,4]dioxin, heptachloro- 800, 810

Dibenz[b,e][1,4]dioxin, hexachloro- 811, 812

Dibenzo-p-dioxin, octachloro- (8 CI); Dibenz[b,e][1,4]dioxin, octachloro- (9 CI) 810, 812

Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenz[b,e][1,4]dioxin, 2,3,7,8-tetrachloro- (9 CI) 376-377, 810-812, 1000-1010, 2000-2001, 2007-2009

Dibenzofuran, 2,3,7,8-tetrachloro- 2000-2009

Dibenzofurans, hexachloro- 2000-2009

[illegible] 2005, 2020, 2040

[illegible], 1-cyclohexyl- (9 CI); Cyclohexene, dodecyl- (9 CI) 2021-2025

[illegible] 2040, 2060, 2080

Hydroxyapatite 2000

Estr-4-en-3-one, 17-hydroxy-7,17-dimethyl-, (7-alpha,17beta)- 2042-2047

Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI) 2052-2056

Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI) 2058

Estrogens, conjugated (Re postings in CHEMLINE). 2016

Ethane, hexachloro- 2017

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-4-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI) 2025-2026

Ethane, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI) 2030-2035, 2037-2042, 2044-2049, 2050, 2052-2053

Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-4-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI) 2055

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI) 2056-2057

Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI) 2058, 2060

Ethylene, tetrachloro- (8 CI); Ethene, tetrachloro- (9 CI) 2070-2075

Ethylene, vinyl bromide (8 CI); Ethene, bromo- (9 CI) 2076-2077

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI) 2078-2079, 2111-2116, 2118-2121, 2123-2124, 2126, 2128, 2130-2131, 2133, 2135-2137

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (9 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI) 2080-2082

Ethylenediamine, dihydrochloride (9 CI); 1,2-Ethanediamine, dihydrochloride (9 CI) 2083

Ethyl VX, Hyd 2084-2085

Ethylene (8 CI); Ethene (9 CI) 2086-2087

Fluoride, cesium, 2088-2089

[illegible] 3197, 3218

[illegible] 3085, 3086

[illegible] 3086-3096, 4159-4160

[illegible] 3041-3047, 3084, 4154

[illegible], tert-[illegible] (No postings in CHEMLINE). 4166-4177

[illegible] 3040-3055, 3081, 4159

[illegible], 2,6,10,14-tetramethyl- 3084, 3087, 4181

[illegible]yl)biphenyl (No postings in CHEMLINE). 4188

[illegible]yl)fluorene (No postings in CHEMLINE). 4188

[illegible](2,1-b)thiazole, 2,3,5,6-tetrahydro-2-phenyl, (S)- 4184-4187

Indium 310-322, 4160-4161

Indium, isotope of mass 125 4187

Indium, isotope of mass 129 4187

Indium, isotope of mass 131 4184

Iron 320-325, 807-821, 3036-3070, 3040-3042, 3310-3312, 3985-3987, 3040, 4156-4158

Iron, isotope of mass 55 4159-4160

Ivermectin 3764-3781

Lanthanum 4078

Lead 370-375, 822-1116, 3080-3134, 3981-3985, 3410-3414, 3030-3043, 3971, 3977, 3987, 3985, 3991, 3992, 3996, 4154-4159

Lead, isotope of mass 210 377, 378, 4159-4160

Lithium 4080-4160

m-[illegible], N-[illegible]-N-ethyl- (9 CI); [illegible]-[illegible], 3-ethyl-N-(1-methylethenyl)- (9 CI) 3187

Magnesium 3035, 3040, 4080-4087

Manganese 3080-3084, 3080-3085, 3080-3070, 3987, 3080-3082, 3084, 4078-4080

Mercury 320-321, 3040-3042, 3070-3084, 3080-3085, 3973-3977, 3981-3985, 3986, 3994-3996, 4078, 4080-4111, 4154-4161, 4166, 4168-4177, 4180, 4184-4186-4214

[redacted]

[illegible]

Phosphorothioic acid, O,O-dimethyl O-(3-isopropyl-6-methyl-4-pyrimidinyl) ester (9 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI) 4068

Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (9 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI) 4069

Phosphorothioic acid, O,O-dimethyl O-(2-methylthio)-ethyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(2-methyl-4-(methylthio)phenyl) ester (9 CI) 4070

Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(2-methyl-4-nitrophenyl) ester (9 CI) 1207-1210, 4207-4070

Phosphorus 0000, 4070-4000

Phosphorus, isotope of mass 32 4000-4011

Phthalic acid, bis(2-ethylhexyl) ester (9 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI) 1011-1214, 2000, 4010, 4014

Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI) 1210-1217, 2004, 4012

Phthalic acid, dimethyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dimethyl ester (9 CI) 1210-1220

Picric acid (9 CI); Phenol, 2,4,6-trinitro- 4010-4007

Plutonium 4000, 4000

Plutonium, isotope of mass 000 4000-4000

Podocarp-7-en-18-oic acid, 18-beta-methyl-13-vinyl-, (-)- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1alpha,4abeta,4bbeta,7alpha,10aalpha))- (9 CI) 4007

Podocarp-8(14)-en-18-oic acid, 18-beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1alpha,4abeta,4bbeta,7beta,10aalpha))- (9 CI) 4008

Podocarp-8(14)-en-18-oic acid, 18-beta-methyl-13-vinyl- (9 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1alpha,4abeta,4bbeta,7beta,10aalpha))- (9 CI) 4009

Podocarpa-7,13-dien-18-oic acid, 18-hydroxy- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-decahydro-2-(4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,4bbeta,10aalpha))- (9 CI) 4010

Podocarpa-8,11,13-trien-18-oic acid, 18-hydroxy- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6,10,10a-octahydro-2-(4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,4bbeta,10aalpha))- 4011

Polonium, isotope of mass 210 4000, 4007, 4010, 4014

Polybrominated biphenyls (No postings in CHEMLINE). 1220-1305, 4944

Polybrominated dibenzo-p-dioxin (No postings in CHEMLINE). 4945-4949

Polybrominated dibenzofurans (No postings in CHEMLINE). 1220, 1305, 4950-4954

Polybrominated naphthalenes (No postings in CHEMLINE). 1301-1305, 4955-4959

Polybrom-4-(dibromethylsulphonamido)-diphenyl ether (No postings in CHEMLINE). 4960-4965

Polybrom-4-aminodiphenyl ether (No postings in CHEMLINE). 4966-5010

Polybromobiphenyl (No postings in CHEMLINE). 5020

Potassium 5021-5050

Pregn-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (9 CI); Pregn-1,4-diene-3,20-dione, 11,17, 21-trihydroxy-, (11beta)- (9 CI) 5051-5052

Pregnenone (8 CI); Pregn-4-ene-3,20-dione (9 CI) 5054, 5055

Pregnenolide, 3',4'-dichloro- (8 CI); Pregnenolide, N-(3,4-dichlorophenyl)- (9 CI) 5060

Pregnenic acid (8 CI); Pregnenic acid (9 CI) 5057

Pregnenic acid, 3-chloro- (8 CI); Pregnenic acid, 3-chloro- (9 CI) 5058, 5059

Pyrene 4950-418

Pyrene, methyl- 414-418

Pyridine, 4-amino- (9 CI); 4-Pyridinamine (9 CI) 1240-1305, 5060

Quinidine (8 CI); Cinchonan-9-ol, 6'-methoxy-, (9R)- (9 CI) 1254

Radium, isotope of mass 223 420-422

Reboxin 5061

Retinol, acetate, (all-trans)- (8 CI); Retinol, acetate (9 CI) 5062, 5063

Rubidium 5064

s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI) 5065-5072

Samarium 5073

Scandium 5074

Selenium 420-421, 1305-1306, 2102-2107, 5075-5077, 5084, 5078-5083

Substitute, homologs of mono 75 5165

Sulfanes 1502

Sulfur 403-405, 1505, 1506, 2402, 5156

Sulfuric 5157-5158

Sulfuric, ion (2(+)) 5154-5161

Sumatriptan 5162

Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1,2)-O-5-deoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bis(aminoiminomethyl)- (9 CI) 5159, 5164

Strychnine 5165

Succinimide 2402, 2404, 5166-5178

Succinimide, homologs of mono 90 5174, 5175

Sulfonamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI) 426-442, 1504-1515, 2402-2416, 5002-5009

Sulfone, p-chlorophenyl methyl (9 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI) 5170-5185

Tellurium 1525, 1531, 2411-2414

Terphenyl, chlorinated 5186-5188

Tetrachlorine 2415-2420, 5003, 5189

Thallium 1535, 1536

Thiopronin acid, rel-(+)- (9 CI); Thiopronin (9 CI) 1536

Thorium 2003-2005, 2008-2009

Thorium, homologs of mono 100 441-442

Tin 1538, 1539, 2402-2403, 2005

Titanium 2030, 2037

Toxaphene 2070-2071

Toluene (8 CI); Benzene, methyl- (9 CI) 2402-2410

Toluene, 2,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,3-dichloro-4-(trifluoromethyl)- (9 CI) 2002

Transition 410-412, 1537-1538, 2402-2403, 2005-2009

[illegible]-8-en-6-one, 12,13-epoxy-9,7,15-trihydroxy-, (beta,7alpha)- 2288

Triforen methyl [No postings in CHEMLINE]. 2284-2289

Trihexane 2469, 2510, 2540

Urenium 480-486, 2668-2691, 2241-2247

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (9 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI) 487, 488

Vanadium 1282-1288, 2454-2482, 2242-2253

Vitamin A 2538, 2539, 2284-2287

Zinc 480-485, 1595-1604, 2469-2525, 2540-2542, 2515, 2523-2527, 2572, 2589-2589, 2542, 2250-2447

1-Naphthylamine (8 CI); 1-Naphthalenamine (9 CI) 2529, 2537

1-Propanol, 2-nitro- 2442, 2443

1,1'-Biphenyl, 2,3',3,4,4',5,5'-heptachloro- 2439

1,1'-Biphenyl, 2,3',4,4',5,5'-hexachloro- 2431

1,1'-Biphenyl, 2,3',4,4',5,5'-hexachloro- 2432-2450

1,1'-Biphenyl, 2,3',4,5'-tetrachloro- 2466-2475

1,1'-Biphenyl, 2,3',5,5'-tetrachloro- 2474-2481

1,2,4,5-Tetrachlorobenzene [No postings in CHEMLINE]. 2482

1,2-Butadiene, 1,1,2,3,4,4-hexachloro- 2488

1,3,4-Methano-1H-cyclobuta[cd]pentalene, 1,1a,2,2,3a,4,5,5,5a,5b-undecachlorooctahydro- 2495, 2502-2545

1,3,4-Methano-1H-cyclobuta[cd]pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro- 488-500, 1490-1512, 2540, 2454-2542

1,3,4-Methano-1H-cyclobuta[cd]pentalene-6-one, 1,1a,2,3a,4,5,5,5a,5b,6-decachlorooctahydro- 508-514, 2502-2509, 2542-2545

1,3,5-Trioxino-2,4(1H,3H)-dione, 3-cyclohexyl-6-(dimethylamino)-1-methyl- 2547-2549

1,3,5-Trioxane-hexone [No postings in CHEMLINE]. 2547

1,4-Dichloronaphthalene [No postings in CHEMLINE]. 2548

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI); 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5beta,8beta,8abeta)- (9 CI) 2509, 2522-2525

[redacted]

4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alpha,6beta))-, monopotassium salt (9 CI) 5742

4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta,3alpha,3aalpha,4beta,7beta,7aalpha)- 521-524, 1444-1450, 2630-2631, 2750, 5746-5747

4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI) 525-527, 1451-1457, 2602-2607, 2755, 2756, 5750-5754

4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI) 526, 1458-1466, 2602-2631, 2752, 2754, 5755-5805

4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha,4,7,7-alpha-tetrahy dro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha,2alpha,3alpha,3aalp ha,4beta,7alpha- (9 CI) 520, 1460-1477, 2622, 2625, 2760, 5806-5810

4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aalpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha,4beta,7beta,7aalpha)- (9 CI) 520, 521, 1478-1504, 2624, 5811-5814

4,7-Methanoindan, 1beta,2alpha,4alpha,5,6,7alpha,8,8-octachloro-3abeta,4,7,7abeta-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta,3aalpha,4beta,7beta,7aalpha)- (9 CI) 1505-1513

4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI) 522, 1512, 1513, 5815-5821

4,7-Methanoindene, 3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 3a,4,7,7a-tetrahydro- (9 CI) 1514, 1515

5-Heptenoic acid, 7-(2,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)-, (2 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI) 5823

5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI) 2626-2627, 5822

5-Thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid, 3-[(acetyloxy)methyl]-7-[[(2-amino-4-thiazolyl)(methoxyimino)acetyl]amino]-8-oxo-, (6R-trans)- 5754

9-Hydroxyfluorene [No postings in CHEMLINE] 5826

9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (more...5S,7E)- (9 CI) 5825

DATABASE RECORDS

2628-3683

Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitrophenethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*)) - (9 CI)
56-75-7
C11-H12-Cl2-N2-O5
MW 323.14, MP 150.5-151.5 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2628 Blood, serum	10 Injection	a) 0 ug/ml b) 1.93+/-0.13-6.72+/-0.12 ug/ml c) 3.10+/-0.11-8.55+/-0.10 ug/ml	a) Not applicable b) Not applicable c) Not applicable	a) Controls, 2 cases b) 20 mg/kg, 4 cases c) 60 mg/kg, 4 cases 1-6 wk, daily dose for 6 wk. Significant decrease in weight gain with high dose. Kenya Spectrometry
BLOOD SERUM; CATTLE; TERRESTRIAL; KENYA; JUVENILES; DELIBERATE EXPOSURE; INFECTION; ANTIBIOTICS; DRUGS; DRUG THERAPY; BIOACCUMULATION Mitema, E.S.; Musewe, V.O. 1984 British Veterinary Journal 140:437-443				

Tissue	Cases Exposure Route	Range	Mean	General Information
2629 Blood, serum	4 Injection	a) Not given b) Not given c) Not given	a) 80.5+/-20.6-5 ug/ml b) 11.0+/-1.0-2 ug/ml c) 7.0+/-1.4-2 ug/ml S.E.	a) 2 min and 8 hr after IV b) 2.5+/-0.6 and 12 hr after IM c) 3.8+/-0.8 and 12 hr after SC 25 mg/kg dose (in propylene glycol) to 4 mo old Holstein calves, mean wt 79.0+/-5.3 kg. Crossover study. Trough levels after repeated 12 hr doses (separate study of 4 d old calves) consistently >15 ug/ml. Additional studies of age effects on pharmacokinetics, toxicity, and antipyrine elimination. Reduced elimination rates in newborn compared with older calves. Transient weakness, intravascular hemolysis, respiratory changes Bioassay; Colorimetry
BLOOD SERUM; TERRESTRIAL; DELIBERATE EXPOSURE; AGE; ANTIBIOTICS; DRUGS; METABOLISM; CATTLE Burrows, G.E.; Tyler, R.D.; Craigmill, A.L.; Barto, P.B. 1984 American Journal of Veterinary Research 45(8):1586-1591				

Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)
6673-35-4
C14-H22-N2-O3
MW 266.32, MP 134-136 C

Goat
CAPRA HIRCUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2630 Urine	7 Ingestion	a) Not detected-40.0 ppm b) Not detected-9.8 ppm c) Not detected-151 ppm d) Not detected-11.6 ppm e) Not detected-1838 ppm	a) 7.2+/-1.4 ppm b) 0.9+/-0.3 ppm c) 19.1+/-5.6 ppm d) 1.2+/-0.4 ppm e) Not given S.E.	a) Acute single-dose 200 mg/kg body wt, 2 hr post-treatment b) 7 hr post-treatment c) 24 hr d) 48 hr 70% recovery from whole blood. Values estimated from graph. California, Davis No clinical evidence of poisoning in kids or 5.0 mg/kg/d group. With higher doses, some miosis, tachycardia, diarrhea, hypersalivation, muscle fasciculation, sternal recumbancy, depression, dyspnea. Recovery, acute single-dose, by 48 hr. None detected in milk. GC/MS
URINE; BLOOD; IMIDAN; INSECTICIDES; PESTICIDE RESIDUES; ORGANOPHOSPHATES; GOATS; POISONING; METABOLITES; CALIFORNIA; TERRESTRIAL; DELIBERATE EXPOSURE Mount, M.E. 1984 Toxicology and Applied Pharmacology 72:236-244				

Acetic acid, (2,4-dichlorophenoxy)-
94-75-7
C8-H6-Cl2-O3
MW 221.04, MP 138 C, BP 160 C at 0.4 mm Hg

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2631 Bile	Injection	a) Not given b) Not given c) Not given d) Not given	a) 185+/-19 nmol/mL b) 120+/-23 nmol/mL c) 0.91+/-0.24 nmol/mL d) 0.43 nmol/mL	a) 20 hr after 10 mg/kg, 0.77% of dose b) 92 hr after treatment with 10 mg/kg c) 20 hr after 0.1 mg/kg, 0.77+/-0.02% of dose d) 92 hr after 0.1 mg/kg, 0.59+/-0.03% of dose Not detectable in liver, fat, muscle, or plasma. Washington Scintillation counting
2632 Urine	3 Injection	Not given	10.5 nmol/mL	Peak at 3 hr after treatment with 0.1 mg/kg. Estimated from graph. Washington Scintillation counting
BILE; URINE; AQUATIC; DELIBERATE EXPOSURE; AGRICULTURE; FISHES; PESTICIDE RESIDUES; HERBICIDES; METABOLISM; WATER POLLUTION; BIOACCUMULATION Carpenter, L.A.; Eaton, D.L. 1983 Archives of Environmental Contamination and Toxicology 12:169-173				

Acetic acid, trichloro-
76-03-9
C2-H-Cl3-O2
MW 163.40, MP 57-58 C, BP 196-197 C

Trout, brook
SALVELINUS FONTINALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2633 Liver	1 Ingestion	Not applicable	28.4 ng/g	After 2nd application. South Basin, previously iced-over, average depth 15 m. Aerial spraying May-June 1977. Mean wt 235.1 g, length 27.3 cm. Canada, Quebec, Lac Ste-Anne GC-flame ionization detector
FISHES; BIOACCUMULATION; INSECTICIDES; ORGANOPHOSPHATES; LIVER; MUSCLES; INTESTINES; OVARIES; CANADA; ADIPOSE TISSUE; PESTICIDE RESIDUES; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION Holmes, S.B.; Kingsbury, P.D.; Mamarbachi, G.; Mathieu, P. 1984 Bulletin of Envivonmental Contamination and Toxicology 33:468-475				

Aluminum
7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Beaver
CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2634 Intestine	4 Ingestion	Not given	11.9+/-5.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2635 Kidney	4 Ingestion	Not given	2.9+/-1.7 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2636 Liver	4 Ingestion	Not given	3.7+/-0.9 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2637 Muscle	4 Ingestion	Not given	4.6+/-2.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Aluminum

7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Cod, pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2638 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.239+/-0.142 ug/g b) 0.182+/-0.099 ug/g c) 0.035+/-0.024 ug/g d) 0.199+/-0.117 ug/g e) 0.265+/-0.151 ug/g f) 0.261+/-0.123 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Low level. No significant differences e), f) in distribution of element. Pacific Ocean, northeast ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Mackerel, Atka
PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2639 Muscle	20 Ingestion	Not given	0.110+/-0.142 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2640 Intestine	4 Ingestion	Not given	2.6+/-1.3 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2641 Kidney	4 Ingestion	Not given	2.4+/-1.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

(next page)

Aluminum
7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Otter
LUTRA CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2642 Liver	4 Ingestion	Not given	1.2+/-0.3 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2643 Muscle	4 Ingestion	Not given	4.2+/-1.6 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Pollock, walleye
THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2644 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.175+/-0.136 ug/g b) 0.177+/-0.157 ug/g c) 0.041+/-0.046 ug/g d) 0.135+/-0.116 ug/g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g d) Overall mean, combined sites Considered low levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Ga.glitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2645 Muscle	24 Ingestion	Not given	0.060+/-0.047 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean, northeast ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Aluminum
7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
2646 Kidney	4 Ingestion	Not given	1.8+/-0.5 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2647 Liver	4 Ingestion	Not given	1.1+/-0.3 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2648 Muscle	4 Ingestion	Not given	3.2+/-1.2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2649 Muscle	13 Ingestion	Not given	0.137+/-0.065 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
2650 Alimentary canal	Ingestion	a) Not given b) Not given	a) 67.0+/-5.2 ug/g b) 101+/-22 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS

(next page)

Aluminum
7429-90-5
Al
AtW 26.98154,MP 660 C,BP 2327 C,VP 1mm Hg at 1540 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2651 Fat body	Ingestion	a) Not given b) Not given	a) 36.8+/-8.6 ug/g b) 41.3+/-11.3 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2652 Gonads	Ingestion	a) Not given b) Not given	a) 41.8 ug/g b) 50.4 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2653 Head	Ingestion	a) Not given b) Not given	a) 27.6+/-5.4 ug/g b) 46.2+/-3.7 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2654 Integument	Ingestion	a) Not given b) Not given	a) 19.6+/-4.1 ug/g b) 41.3+/-26.4 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2655 Malpighian tubes	Ingestion	a) Not given b) Not given	a) 45.2+/-11.6 ug/g b) 27.4+/-4.8 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2656 Silk gland	Ingestion	a) Not given b) Not given	a) 26.4+/-6.4 ug/g b) 31.1+/-9.8 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS

(next page)

Aluminum
7429-90-5
Al
AtW 26.98154,MP 660 C,BP 2327 C,VP 1mm Hg at 1540 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2657 Trachea	Ingestion	a) Not given b) Not given	a) 31.7+/-4.0 ug/g b) 38.9+/-6.0 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253				

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2658 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.308+/-0.231 ug/g b) 0.045+/-0.105 ug/g c) 0.854+/-0.266 ug/g d) 0.198+/-0.210 ug/g Wet wt	a) Caught near Newport, OR, 20 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-66 g d) Overall mean, combined sites. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gangitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Aluminum
7429-90-5
Al
AtW 26.98154,MP 660 C,BP 2327 C,VP 1mm Hg at 1540 C

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2650 Gills	a) 2 b) 4 c) 4 d) 3 e) 2 f) 3 g) 4	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 61 ug/g b) 1582 ug/g c) 673 ug/g d) 2197 ug/g e) 406 ug/g f) 1275 ug/g g) 3505 ug/g Dry wt	a) Esgair Garn (south), 6.4 pH, 11 u eq Al/l b) Nant y Craflwyn, 4.9 pH, 50 u eq Al/l c) Nant Cwmbys, 4.8 pH, 24 u eq Al/l d) Trawsnant, 5.3 pH, 37 u eq Al/l e) Camddwr, 5.3 pH, 14 u eq Al/l f) Tywi, 4.6 pH, 24 u eq Al/l g) Nant y Fannog, 4.4 pH, 57 u eq Al/l Both a) and e) drain unafforested watersheds, b)-d) and f)-g) drain afforested watersheds Positive correlation between mortality rate and gill Al concentration ($r=0.96$, $p<0.05$). Wales, Tywi River catchment AAS

GILLS; AQUATIC; BENTHOS; FISHES; PH; ALUMINUM; SURFACE WATER; ACIDIC DEPOSITION; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; WATER POLLUTION

Stoner, J.H.; Gee, A.S.; Wade, K.R. 1984 Environmental Pollution (Series A) 35:125-157

Aluminum
7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C
Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2660 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.102+/-0.154 ug/g b) 0.173+/-0.138 ug/g	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Considered low level. Pacific Ocean ES
PISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Americium, isotope of mass 241
14596-10-2
Am
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2661 Milk		0.0003-0.0018 Bq/l	Not given	Americium-241. Collected around Sellafield Works (nuclear reprocessing plant) and nearby Ravenglass Estuary. United Kingdom, West Cumbria
MILK; TERRESTRIAL; CATTLE; LACTATION; RADIONUCLIDES; WATER POLLUTION; STRONTIUM; CESIUM; PLUTONIUM; RABBITS Curtis, E.J.C.; Bradford, W.R.; Popplewell, D.S. 1984 Science of the Total Environment 35:267-283				

Ammonia

7664-41-7
H3-N
MW 17.03, MP -77.7 C, BP -33.35 C, VP 10 atm at 25.7 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2662 Blood, plasma		a) 127.9+/-20.9-168.9+/-18.4 ug b) 131.5+/-30.3-160+/-44.0 ug c) 189.8+/-30.0-238.0+/-17.5 ug d) 186.9+/-23.5-258.6+/-30.2 ug /dl S.E.	a) Not given b) Not given c) Not given d) Not given	a) 6 sows (controls) 86d pregnancy-14 d lactation, fed semi-purified diet with 63 mg/kg Zn, 2 kg/d during pregnancy, ad libitum during lactation b) 6 sows (low Zn), 13 mg/kg Zn, same regime c) Piglets of control sows, birth-14 d d) Piglets of low Zn sows, birth-14 d Purebred Landrace sows, 29-41 mo old, multipara, wt 198-267 kg. Farrowing induced d 114. No wt difference between controls and low Zn sows. No differences in levels between controls and others. In piglets, NH4 decreased with age. Ranges of means.
BLOOD PLASMA; MILK; TERRESTRIAL; DELIBERATE EXPOSURE; ADULTS; NEWBORN; ZINC; COPPER; IRON; AMMONIA; ANIMAL FEEDS; DIETS; LACTATION; PREGNANCY Kalinowski, J.; Chavez, E.R. 1984 Canadian Journal of Animal Science 64:749-758				

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

1825-21-4
C7-H3-Cl5-O
MW 280.35
Base, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2663 Body	1	Not applicable	0.5 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Osaka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)
1825-21-4
C7-H3-Cl5-O
MW 280.35

Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2664 Body	1	Not applicable	0.1 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Aichi GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2665 Body	1	Not applicable	0.2 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2666 Body	a) 1 b) 1 c) 1	a) Not applicable b) Not applicable c) Not applicable	a) 1.2 ppb b) 0.5 ppb c) 0.1 ppb Wet wt	a) Osaka b) Tottori c) Ehime Collected offshore 10/81 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)
1825-21-4
C7-H3-Cl5-O
MW 280.35

Mussel
MYTILUS EDULIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2667 Body	a) 1 b) 1	a) Not applicable b) Not applicable	a) 10.7 ppb b) 0.2 ppb Wet wt	a) Osaka b) Wakayama Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2666 Body	a) 2 b) 1	a) 1.6-3.0 ppb wet wt b) Not applicable	a) 2.8 ppb b) 0.2 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)
21702-84-1
C7-H6-Br2-O

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2660 Body	1	Not applicable	1.0 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.5 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLORCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)
21702-84-1
C7-H6-Br2-O
Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2670 Body	1	Not applicable	0.6 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.5 ppb. Japan, Kagawa GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2671 Body	2	0.6-1.3 ppb Wet wt	0.95 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.5 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)
607-99-8
C7-H5-Br3-O
Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2672 Body	1	Not applicable	0.4 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Osaka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)
607-99-8
C7-H5-Br3-O
Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2673 Body	1	Not applicable	0.3 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Tottori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mackerel, horse
TRACHURUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2674 Body	1	Not applicable	0.1 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2675 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 0.5 ppb b) 1.2 ppb c) 0.5 ppb d) 0.2 ppb Wet wt	a) Osaka b) Totlori c) Ehime d) Kagawa Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)
607-99-8
C7-H5-Br3-O

Mussel
MYTILUS EDULIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2676 Body	a) 1 b) 1 c) 1	a) Not applicable b) Not applicable c) Not applicable	a) 0.6 ppb b) 0.3 ppb c) 0.1 ppb Wet wt	a) Osaka b) Wakayama c) Ehime Collected offshore 10/81. 20 g edible tissue analysed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2677 Body	a) 2 b) 1	a) 1.5-5.4 ppb wet wt b) Not applicable	a) 3.5 ppb b) 0.1 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analysed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Anthracene

120-12-7
C14-H10
MW 178.22, MP 218 C, BP 342 C, VP 1 mm Hg at 145.0 C (sublimes)

Bluegill
LEPOMIS MACHROCHIRUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2678 Body	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 2,389+/-275 ng/g b) 457+/-182 ng/g c) 7763+/-1325 ng/g Wet wt	a) 4 hr, reach 1 b) 4 hr, reach 5 c) 24 hr, reach 5 Time exposed to 12.2 ug/L nominal concentration. Georgia, Millen; South Carolina, Orangeburg Death HPLC
MOLLUSKS; FISHES; BODY; AQUATIC; DELIBERATE EXPOSURE; POLYCYCLIC AROMATIC HYDROCARBONS; POISONING Landrum, P.F.; Bartell, S.M.; Giesy, J.P.; Leversee, G.J.; Bowling, J.W. Haddock, J.; LaGory, K.; Gerould, S.; Bruno, M. 1984 Ecotoxicology and Environmental Safety 8:183-201				

Clam, papershell
ANODONTA IMBECILLIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2679 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 300 ng/g b) 4,200 ng/g c) 6,800 ng/g d) 8,400 ng/g e) 12,300 ng/g f) 17,000 ng/g Dry wt	a) 6 hr b) 24 hr c) 48 hr d) 96 hr e) 168 hr f) 336 hr Time exposed to 12.2 ug/L nominal concentration. Estimated from graph. South Carolina, Aiken, Savannah River Plant Death at about 336 hr. HPLC
MOLLUSKS; FISHES; BODY; AQUATIC; DELIBERATE EXPOSURE; POLYCYCLIC AROMATIC HYDROCARBONS; POISONING Landrum, P.F.; Bartell, S.M.; Giesy, J.P.; Leversee, G.J.; Bowling, J.W. Haddock, J.; LaGory, K.; Gerould, S.; Bruno, M. 1984 Ecotoxicology and Environmental Safety 8:183-201				

Anthracenecarboxaldehyde

81671-77-9
C15-H10-O

Sole, English
PAROPHRYS VETULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2680 Bile	1	Not applicable	2700 ng/g Wet wt	Levels significantly higher than in fish from unpolluted Meadow Point area. Washington, Duwamish Waterway GC/MS
BILE; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; WASHINGTON; LIVER DISEASES; NEOPLASMS; MEASUREMENT METHODS; BIPHENYL COMPOUNDS; POLYCYCLIC AROMATIC HYDROCARBONS; BIOACCUMULATION; METABOLITES; URBAN AREAS; WATER POLLUTION Krahn, M.M.; Myers, M.S.; Burrows, D.G.; Malins, D.C. 1984 Xenobiotica 14:633-646				

Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)
54-31-9
C12-H11-Cl-N2-O5-S
MW 330.77, MP 206 C

Swine
SUS SCROFA

Tissue	Cases Exposure Route	Range	Mean	General Information
2681 Urine	a) 1 b) 1 c) 1 d) 1 e) 1 Injection Ingestion	a) 31.3-0 mg/l b) 122.2-1.74 mg/l c) 57.6-0.64 mg/l d) 40-0.14 mg/l e) 32.7-0.05 mg/l	a) Not given b) Not given c) Not given d) Not given e) Not given	a) Collections at 12 and 96 hr after 0.45 mg/kg (Lasix) IM. 62% total dose (corrected for recovery and glucuronide formation) excreted in 72 hr b) 12 and 96 hr after 0.91 mg/kg. Dose repeated at 3 hr. 43% total dose excreted in 96 hr c) 12 and 120 hr after 0.45 mg/kg. 76% excreted in 120 hr d) 12 and 120 hr after 0.23 mg/kg. 89% excreted in 120 hr e) 24 and 120 hr after 0.45 mg/kg oral. 25% excreted in 120 hr Bulk eliminated by 24 hr. Poorly absorbed from GI tract. About 12% excreted as glucuronide conjugate. Crossbreed barrows, wt 91-107 kg HPLC

URINE; TERRESTRIAL; DELIBERATE EXPOSURE; DIURETICS; DRUG ABUSE; DRUGS

Ray, A.C.; Tanksley, T.D.; LaRue, D.C.; Reagor, J.C. 1984 American Journal of Veterinary Research 45(7):1460-1463

Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)
84-65-1
C14-H8-O2
208.20 MW 208.20, MP 286 C, BP 377 C at 760 mm Hg, VP 1 mm Hg at 190 C

Sole, English
PAROPHRYS VETULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2682 Bile	1	Not applicable	4800 ng/g Wet wt	Levels significantly higher than in fish from unpolluted Meadow Point area. Washington, Duwamish Waterway GC/MS

BILE; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; WASHINGTON; LIVER DISEASES; NEOPLASMS; MEASUREMENT METHODS; BIPHENYL COMPOUNDS; POLYCYCLIC AROMATIC HYDROCARBONS; BIOACCUMULATION; METABOLITES; URBAN AREAS; WATER POLLUTION

Krahn, M.M.; Myers, M.S.; Burrows, D.G.; Malins, D.C. 1984 Xenobiotica 14:633-646

Antimony
7440-36-0
Sb
AtW 121.75, MP 630 C, BP 1635 C, VP 1 mm Hg at 886 C, 10 mm Hg at 960 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2683 Hair	Ingestion	Not given	0.005 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; ..ACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Arochlor 1242 (No postings in CHEMLINE).
53469-21-9
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Chironomid
GLYPTOTENDIPES BARBIPES STAEGER

Tissue	Cases Exposure Route	Range	Mean	General Information
2684 Body	Ingestion, Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 0.75+/-0.05 ug/g b) 13.2+/-0.5 ug/g c) 19.5+/-0.5 ug/g d) 0.15+/-0.05 ug/g e) 3.5+/-0.5 ug/g f) 5.4+/-0.5 ug/g g) 0.10+/-0.05 ug/g h) 2.0+/-0.5 ug/g i) 2.9+/-0.5 ug/g Wet wt	a) 0.01 ppm, 0% mineral oil b) 0.1 ppm, 0% oil c) 1.0 ppm, 0% oil d) 0.01, 0.25% oil e) 0.1 ppm, 0.25% oil f) 1.0 ppm, 0.25% oil g) 0.01 ppm, 1.0% oil h) 0.1 ppm, 1.0% oil i) 1.0 ppm, 1.0% oil. 2nd instar midge. From sewage treatment plant sludge lagoon, treated with Aroclor/ mineral oil substrate for 30 d. Bioconcentration of Aroclor, oil contamination reduced bioavailability. Michigan, Ann Arbor GC-EC
CHIRONOMIDS; POLYCHLORINATED BIPHENYLS; BIOCONCENTRATION; MINERAL OILS; MICHIGAN; BODY; BIOAVAILABILITY; FOOD CONTAMINATION; WATER POLLUTION; ENVIRONMENTAL EXPOSURE; SEWAGE Meier, P.G.; Redlske, R.R. 1984 Bulletin of Environmental Contamination and Toxicology 33:225-232				

Arochlor 1254
11097-69-1
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2688 Adipose	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 18.1 ug/g b) 0.65 ug/g c) 130.6 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Samples from fetuses (age 8-9 mo, wt 23-34 kg) removed from cows after 130 treatment days Mothers, crossbred (Hereford X Simmental) beef cows, more than 6 mo from parturition before treatment GC-EC
2686 Liver	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 4.7 ug/g b) 3.6 ug/g c) 54.1 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Samples from fetuses (age 8-9 mo, wt 23-34 kg) removed from cows after 130 treatment days Mothers, crossbred (Hereford X Simmental) beef cows, more than 6 mo from parturition before treatment GC-EC
2687 Milk	a) 1 b) 1 c) 1	a) Not applicable b) Not applicable c) Not applicable	a) 8.5 ug/g b) 0.54 ug/g c) 96.4 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Colostrum, 1 day after parturition. 130 exposure days. Crossbred (Hereford X Simmental) beef cows GC-EC
2688 Thyroid gland	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 19.4 ug/g b) 2.3 ug/g c) 121.1 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Samples from fetuses (age 8-9 mo, wt 23-34 kg) removed from cows after 130 treatment days Mothers, crossbred (Hereford X Simmental) beef cows, more than 6 mo from parturition before treatment GC-EC

CATTLE; BIOACCUMULATION; PREGNANCY; POLYCHLORINATED BIPHENYLS; ADIPOSE TISSUE; LIVER; MILK; THYROID GLANDS; INDIANA; ADULTS; FETUS

Perry, T.W.; Everson, R.J.; Hendrix, K.S.; Peterson, R.C.; Robinson, F.R. 1983 Trace Substances in Environmental Health-XVI. Proceedings of the Annual Conference on Trace Substances in Environmental Health held at the University of Missouri, Columbia, Missouri, May 31-June 3, 1982

Arochlor 1260
11096-82-5
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2689 Adipose	a) 1 b) 1 c) 1 Oral Transplacental	a) Not given b) 15-0.8 ppm c) 21-1 ppm	a) 14 ppm b) Not given c) Not given	a) Exposed in utero, died of respiratory failure after delivery b) Mother, not exposed during elimination period of 669 d c) Substitute calf, exposed thru nursing from b) Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2690 Brain	1 Transplacental	Not given	0.1 ppm	Exposed in utero, died of respiratory failure 10 min postpartum. Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2691 Kidney	1 Transplacental	Not given	0.3 ppm	Exposed in utero, died of respiratory failure 10 min postpartum. Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2692 Liver	1 Transplacental	Not given	0.4 ppm	Exposed in utero, died of respiratory failure 10 min postpartum. Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2693 Milk	1 Oral	9-4 ppm	Not given	Heifer exposed by licking waste oil from leaking container that had been in pasture several years. No exposure during 265 d nursing period. North Dakota GC

ADIPOSE TISSUE; BRAIN; LIVER; KIDNEYS; MILK; CATTLE; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; IOWA; POLYCHLORINATED BIPHENYLS; ACCIDENTAL POISONING; AGRICULTURE; INDUSTRIAL POLLUTION; TRANSPLACENTAL TRANSFER; LAND POLLUTION
Peterson, L.A.; Rose, P.F.; Osheim, D.L.; Nelson, H.A. 1983 Bulletin of Environmental Contamination and Toxicology 31:263-266

Turtle, snapping
CHELHYDRA SERPENTINA

Tissue	Cases Exposure Route	Range	Mean	General Information
2694 Adipose	a) 5 b) 4 c) 3 d) 2 e) 2 f) 1	a) 11.6-47.7 mg/kg b) 28.8-60.5 mg/kg c) 1.4-2.8 mg/kg d) Not applicable e) Not applicable f) Not applicable	a) 19.16 mg/kg b) 40.23 mg/kg c) 13.67 mg/kg d) 0.8 mg/kg e) <0.2 mg/kg f) 5.0 mg/kg	a) Mississippi River, St. Paul b) Mississippi River, Prairie Island c) Mississippi River, Lake City d) Reeds Lake, Waseca County e) Pomme de Terre River, Glenwood f) Silver Lake, Wright County 25-88% lipid. Length 5.5-15 in., wt 1.8-21.8 lb, estimated age 3->20 yr Minnesota

(next page)

Arochlor 1260
11096-82-5
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Turtle, snapping
CHELHYDRA SERPENTINA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2601 Muscle	a) 5 b) 4 c) 3 d) 2 e) 2 f) 1	a) <0.025-0.066 mg/kg b) <0.025-0.073 mg/kg c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) 0.041 mg/kg b) 0.042 mg/kg c) <0.025 mg/kg d) <0.025 mg/kg e) <0.025 mg/kg f) <0.025 mg/kg	a) Mississippi River, St. Paul b) Mississippi River, Prairie Island c) Mississippi River, Lake City d) Reeds Lake, Waseca County e) Pomme de Terre River, Glenwood f) Silver Lake, Wright County Red meat <0.05-0.66% lipid. Length 5.5-15 in., wt 1.8-21.8 lb, estimated age 3->20 yr Minnesota
TURTLES; CADMIUM; MERCURY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; ADIPOSE TISSUE; MUSCLES; MINNESOTA Helwig, D.D.; Hore, M.E. 1983 Bulletin of Environmental Contamination and Toxicology 30:186-190				

Aroclor 1016
12674-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Monkey, rhesus
MACACA MULATTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2606 Blood, serum	14 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.027+/-0.006 ppm b) 5.89+/-1.59 ppm c) 0.012+/-0.006 ppm d) 2.40+/-1.15 ppm	a) 7 adult females fed 1.0 ppm/d for 87+/-9 wk, whole serum b) Same 7, serum lipid c) 7 adult females fed 0.25 ppm/d for same period, whole serum d) Same 7, serum lipid Lipid levels higher than in milk (3.92 ppm) or fat (4.29 ppm). GC-EC
2607 Milk	24 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given n) Not given	a) 3.00+/-0.60 ppm b) 3.70+/-0.94 ppm c) 3.46+/-1.10 ppm d) 3.60+/-0.88 ppm e) 3.92+/-1.41 ppm f) 1.08+/-0.35 ppm g) 1.23+/-0.17 ppm h) 1.74+/-0.53 ppm i) 1.83+/-0.75 ppm j) 1.45+/-0.55 ppm k) 0.60+/-0.32 ppm l) 0.94 ppm m) 0.82+/-0.28 ppm n) 0.73+/-0.47 ppm	a) 8 adults nursing for 1 mo, fed 1.0 ppm/d for 87+/-9 wk b) 7 of same cases nursing 2 mo c) 8 adults from a) nursing 3 mo d) Same 8, 4 mo e) 7 of same cases, lipid fraction taken concomitantly with serum and fat lipids f) 8 adults nursing 1 mo, fed 0.25 ppm/d for 87+/-9 wk g) Same 8 nursing 2 mo h) Same 8, 3 mo i) Same 8, 4 mo j) Same 8, lipid fraction taken concomitantly with serum and fat lipids k) 8 adults (unexposed controls) nursing 1 mo l) Same 8, 2 mo m) Same 8, 3 mo n) Same 8, 4 mo. GC-EC

(next page)

Aroclor 1016
12674-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Monkey, rhesus
MACACA MULATTA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2698 Skin	a) 8 b) 7 c) 2	a) Not given b) Not given c) .91-2.07 ppm	a) 3.37+/-0.76 ppm b) 1.55+/-0.84 ppm c) 1.54+/-0.75 ppm	a) 1.0 ppm b) 0.25 ppm c) 0 ppm Levels fed mothers daily for 87+/-9 wk. Means are levels in infants at birth. GC-EC
ADIPOSE TISSUE; BLOOD SERUM; SKIN; MILK; MONKEYS; TERRESTRIAL; DELIBERATE EXPOSURE; PENNSYLVANIA; WISCONSIN; ADULTS; INFANTS; NEWBORN; CHLORINATED HYDROCARBONS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; DIETS; LACTATION; TRANSPLACENTAL TRANSFER Barsotti, D.A.; Van Miller, J.P. 1984 Toxicology 30:31-44				

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 26 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2699 Hair	Ingestion	Not given	0.19 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Rousseau, C.; Core, J. 1984 Science of the Total Environment 39:135-142				

Tissue	Cases Exposure Route	Range	Mean	General Information
2700 Kidney	177	<0.02-0.20 mg/kg Wet wt	0.03+or-0.04 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 117 samples below detection limit. Australia, Queensland AAS
2701 Liver	170	<0.02-0.00 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 141 samples below detection limit. Australia, Queensland AAS

(next page)

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2702 Muscle	181	<0.02-0.20 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 144 samples below detection limit. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Valley, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2703 Body, whole	9	<0.1-0.36 ug/g Dry wt	<0.1 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. Positive correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS

BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY
Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2704 Body	a) 18 b) 10 c) 18 d) 128 e) 36 Ingestion	a) Data not available b) Not detected c) Not detected-1.00 ug/g d) 0.03-2.75 ug/g e) Not detected-3.34 ug/g Wet wt	a) Data not available b) Not detected c) 0.12 ug/g d) 0.51 ug/g e) 1.44 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. Maryland, Chesapeake Bay area, tributaries Colorimetry

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Arsenic

7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2705 Body	a) 13 b) 10 c) 18 d) 125 e) 36 Ingestion	a) Data not available b) Not detected c) Not detected-1.00 ug/g d) 0.03-2.75 ug/g e) Not detected-3.34 ug/g Wet wt	a) Data not available b) Not detected c) 0.12 ug/g d) 0.51 ug/g e) 1.44 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. Maryland, Chesapeake Bay area tributaries Colorimetry
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2706 Body	a) 8 b) 20 Ingestion	a) Not detected-0.47 ug/g b) Not detected-4.00 ug/g Wet wt	a) 0.15 ug/g b) 0.81 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. Maryland, Chesapeake Bay area tributaries Colorimetry
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Dab
LIMANDA LIMANDA

Tissue	Cases Exposure Route	Range	Mean	General Information
2707 Muscle	3	a) 2.6-12.5 mg/kg b) 2.0-11.0 mg/kg	a) 6.0 mg/kg b) 5.1 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Earthworm
PHERETIMA HILGENDORFI

Tissue	Cases Exposure Route	Range	Mean	General Information
2706 Body, whole	37	0.02-3.62 ug/wet g	1.72+/-1.09 ug/wet g	Accumulation is dependent upon age or exposure time. Correlations between metal concentrations and body length or weight were significantly positive. Body burdens increased linearly with increased body length throughout the whole life span. Japan, Matsuyama City, Tsubaki shrine Silver-diethyldithiocarbamate method

IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING
Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432

Flounder
PLATICHTHYS FLESUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2706 Muscle	8	a) 0.45-1.8 mg/kg b) 0.45-5.6 mg/kg	a) 5.7 mg/kg b) 3.0 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS

CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES
Luten, J.B.; Riehwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141

Goat
CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2710 Blood	3 Ingestion	a) Not applicable b) 8.5-18 ug/ml c) Not applicable	a) <0.01 ug/ml b) Not given c) 0.03 ug/ml	a) Initial level before treatment b) 1-28 d treatment period c) End 10 d elimination period, after treatment Estimated from graph. 10 mg As/Kg/d for 4 wk, given as Na-methanearsonate. Steady state 16 ug/ml after 25 d. Rapid linear decrease during elimination period. Iran AAS

GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION
Sharistpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Goat
CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2711 Blood, plasma	2 Ingestion	a) 1.2-1.0 ug/ml b) 76-96%	a) Not applicable b) Not applicable	a) 1-70 hr, peak (17.2 ug/ml) after 10 mg/kg, estimated from graph b) % clearance, 24-72 hr 10 mg/kg Administered as monosodium methanearsonate. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Tissue	Cases Exposure Route	Range	Mean	General Information
2712 Milk	a) 1 b) 2 Ingestion	a) 0-0.03 ppm b) 0-0.06 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, peak wk 3 5 wk loss of As. Range of means. 10 mg As/Kg/d for 4 wk, given as Na-methanearsonate. No signicant difference between treated and control. Iran AAS
GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64				

Tissue	Cases Exposure Route	Range	Mean	General Information
2713 Milk	2 Ingestion	a) 0.04-0.00 ppm b) 0.14-0.03 ppm	a) Not applicable b) Not applicable	a) Controls b) Treatment (0-24 hr)-(144-168 hr) after 10 mg/kg as monosodium methanearsonate. Not excreted in significant amounts. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 26 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Goat
CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2714 Urine	a) 1 b) 2 Ingestion	a) 0-0.04 ppm b) 0-218.5 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, 10 d elimination period after treatment, peak d 1 Excretion of As. Range of means. 10 mg As/Kg/d 4 wk, given as Na-methanearsonate. Iran AAS
GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64				

Tissue	Cases Exposure Route	Range	Mean	General Information
2715 Urine	2 Ingestion	50-95%	a) Not applicable b) Not applicable	% dose recovered 24-96 hr after 10 mg/kg as monosodium methanearsonate. Major route of excretion. 5% dose recovered in feces in 48 hr. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-430				

Honeybee
APIS MELLIPERA L.

Tissue	Cases Exposure Route	Range	Mean	General Information
2716 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) 0.77-0.79 ppm	a) Not given b) <0.1 ppm c) 0.27 ppm d) <0.1 ppm e) 0.17 ppm f) 0.89 ppm	a) Controls, 1st summer b) Controls, 2nd summer c) Water repellant, 1st summer d) Water repellant, 2nd summer e) Chromated copper arsenate (CCA), 1st summer f) CCA, 2nd summer Controls, untreated wood. Wood of beehives treated in 1980 to retentions of 4 kg/cu m (CCA) or 3-min dip (Forest Products Laboratory water repellant). 5 colonies /treatment. Wisconsin, Madison AAS
INSECTS; ARSENIC; COPPER; TIN; ANIMAL POPULATIONS; WOOD PRESERVATIVES; PENTACHLOROPHENOL; CHROMIUM; DELIBERATE EXPOSURE; BODY; TERRESTRIAL; PESTICIDES Kalnins, M.A.; Detroy, B.F. 1984 Journal of Agricultural and Food Chemistry 32(5):1176-1180				

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Oyster, American

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2717 Body	a) 104 b) 120 c) 95 d) 361 e) 376 Ingestion	a) Not detected b) Trace-0.93 ug/g c) Not detected-0.66 ug/g d) Not detected-1.67 ug/g e) Not detected-1.85 ug/g Wet wt	a) Data not available b) Trace c) 0.07 ug/g d) 0.26 ug/g e) 0.50 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Increases in As merit future study. Maryland, Chesapeake Bay area, tributaries Colorimetry
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Perch

PERCA FLUVIATILIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2716 Liver	a) 10 b) 10 c) 10 Ingestion	a) Not given b) Not given c) Not given	a) 3.3+/-0.5 ug/g b) 2.7+/-0.2 ug/g c) 3.1+/-0.3 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS
2719 Muscle	a) 11 b) 10 c) 6 Ingestion	a) Not given b) Not given c) Not given	a) 1.23+/-0.17 ug/g b) 0.83+/-0.07 ug/g c) 1.36+/-0.22 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS
LIVER; MUSCLES; FISHES; AQUATIC; DELIBERATE EXPOSURE; SWEDEN; METAL POISONING; ZINC; LEAD; COPPER; CADMIUM; MERCURY; ARSENIC; BIOACCUMULATION; INDUSTRIAL POLLUTION; WATER POLLUTION; ADULTS Larsson, A.; Haux, C.; Sjobeck, M.-L.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:118-128				

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Salmon, Coho
ONCORHYNCHUS KISUTCH

Tissue	Cases Exposure Route	Range	Mean	General Information
2720 Body	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) <0.4 ug/g b) <0.4 ug/g c) <0.4 ug/g d) <0.4 ug/g e) <0.4 ug/g Wet wt	a) Controls, 0 ug/l b) 10 ug/l c) 30 ug/l d) 100 ug/l e) 300 ug/l As trioxide, exposed for 6 mo, no accumulation. Washington AAS
BODY; FISHES; AQUATIC; DELIBERATE EXPOSURE; JUVENILES; METAL POISONING; WASHINGTON; ARSENIC; BIOACCUMULATION Nichols, J.W.; Wedemeyer, G.A.; Mayer, F.L.; Dickhoff, W.W.; Gregory, S.V.; Yasutake, W.T.; Smith, S.D. 1984 Environmental Toxicology and Chemistry 3:143-149				

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2721 Blood	2 Ingestion	a) Not applicable b) 6-20 ug/ml c) Not applicable	a) <0.01 ug/ml b) Not given c) 0.08 ug/ml	a) Initial level before treatment b) 1-28 d treatment period c) End 10 d elimination period, after treatment Estimated from graph. 10 mg As/kg/d for 4 wk, given as Na-methanearsonate. Steady state 24 ug/ml after 20 d. Rapid linear decrease during elimination period. Iran AAS
2722 Milk	a) 1 b) 2 Ingestion	a) 0-0.03 ppm b) 0-0.07 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, peak wk 3 5 wk loss of As. Range of means. 10 mg As/Kg/d for 4 wk, given as Na-methanearsonate. No significant difference between treated and control. Iran AAS
2723 Urine	a) 1 b) 2 Ingestion	a) 0-0.07 ppm b) 0-341.3 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, 10 d elimination period after treatment, peak d 1 Excretion of As. Range of means, 10 mg As/kg/d 4 wk, given Na-methanearsonate. Iran AAS
GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64				

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Sheep, Iranian fat-tailed
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2724 Blood, plasma	2 Ingestion	a) 1.1-1.0 ug/ml b) 68-96%	a) Not applicable b) Not applicable	a) 1-70 hr, peak (14.5 ug/ml) 5 hr after 10 mg/kg, estimated from graph b) % clearance, 24-72 hr after 10 mg/kg Administered as monosodium methanearsonate. AAS
2725 Milk	2 Ingestion	a) 0.02-0.08 ppm b) 0.18-0.02 ppm	a) Not applicable b) Not applicable	a) Controls b) Treatment (0-24 hr)-(144-168 hr) after 10 mg/kg as monosodium methanearsonate. Not excreted in significant levels. AAS
2726 Urine	2 Ingestion	88-89%	Not applicable	% dose recovered 24-96 hr after 10 mg/kg as monosodium methanearsonate. Major route of excretion. 8% dose recovered in feces in 48 hr. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Shrimp
NEPHROPS NORVEGICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2727 Muscle	8	a) 11.6-13.0 mg/kg b) 9.2-10.8 mg/kg	a) 12.0 mg/kg b) 10.0 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES ; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Sole
SOLEA SOLEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2728 Muscle	8	a) 6.2-10.2 mg/kg b) 5.2-9.0 mg/kg	a) 8.0 mg/kg b) 6.8 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Arsenic

7440-38-2
As
AtW 74.9216, MP 817 C at 36 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Sole, lemon
MICROSTOMUS KITT

Tissue	Cases Exposure Route	Range	Mean	General Information
2729 Muscle	8	a) 24.9-31.4 mg/kg b) 19.0-21.3 mg/kg	a) 27.0 mg/kg b) 20.0 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Groef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Arsenic oxide [As2O3]

1327-53-3
As2-O3
MW 197.82, MP 313 C (claudetite), 275 C (arsenolite)

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2720 Blood	101 Dermal	Up to 6.7 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in louicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage
2721 Hair	101 Dermal	Up to 13 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in louicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage

(next page)

Arsenic oxide [As2O3]
1327-53-3
As2-O3
MW 197.82, MP 313 C (claudetite), 275 C (arsenolite)

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2732 Kidney	101 Dermal	Up to 23 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage
2733 Liver	101 Dermal	Up to 15 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage
2734 Urine	101 Dermal	Up to 46 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage

AUTOPSIES; CATTLE; TERRESTRIAL; ACCIDENTAL POISONING; DELIBERATE EXPOSURE; ARSENIC; LIVER; KIDNEYS; URINE; HAIR; BLOOD; PESTICIDES; PESTICIDE RESIDUES

Robertson, I.D.; Harme, W.E.; Ketterer, P.J. 1984 Australian Veterinary Journal 61(11):366-367

Asbestos
1332-21-4
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2736 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Barium
7440-39-3
Ba
AtW 137.34, MP 710 C (approx), BP 1600 C (approx), VP 10 mm Hg at 1040 C
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2736 Hair	Ingestion	Not given	6.8 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA

CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS
Ronneau, C.; Cara, J. 1984 Science of the Total Environment 30:135-142

Cod, pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2737 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.010+/-0.008 ug/g b) 0.007+/-0.002 ug/g c) 0.022+/-0.007 ug/g d) 0.011+/-0.001 ug/g e) 0.010+/-0.007 ug/g f) 0.011+/-0.006 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-640 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Considered low level. No significant differences e), f) in distribution of element. Pacific Ocean, northeast ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES
Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Barium

7440-39-3

Ba

AtW 137.34, MP 710 C (approx), BP 1600 C (approx), VP 10 mm Hg at 1049 C

Mackerel, Atka

PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2738 Muscle	20 Ingestion	Not given	0.008+/-0.008 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g. Considered low level. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Pollock, walleye

THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2739 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.019+/-0.008 ug/g b) 0.020+/-0.009 ug/g c) 0.024+/-0.005 ug/g d) 0.021+/-0.007 ug/g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g d) Overall mean, combined sites Considered low levels. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Pomfret

BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2740 Muscle	24 Ingestion	Not given	0.013+/-0.008 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g. Considered low level. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Barium
7440-39-3
Ba
AtW 137.34, MP 710 C (approx), BP 1600 C (approx), VP 10 mm Hg at 1049 C

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2741 Muscle	13 Ingestion	Not given	0.008+/-0.002 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g. Considered low level.. Pacific Ocean, northeast ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2742 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.007+/-0.007 ug/g b) 0.023+/-0.006 ug/g c) 0.015+/-0.006 ug/g d) 0.012+/-0.007 ug/g Wet wt	a) Caught near Newport, OR, 20 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-66 g d) Overall mean, combined sites. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2743 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.009+/-0.008 ug/g b) 0.009+/-0.002 ug/g Wet wt	a) Near Astoria, OR, mean wt 878+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-
35367-38-5
C14-H9-Cl-F2-N2-O2
MW 310.68, MP 210-230 C, 230 C

Chicken
GALLUS GALLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2744 Blood	12 Injection, Ingestion	a) 400-90 ppm b) 300-90 ppm c) 150-300 ppm d) 800-250 ppm	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 0.15-24 hr, peak (400 ppm) immediately after 1 mg/kg IV, 2 white leghorns b) 0.15-24 hr, peak (300 ppm) immediately after 1 mg/kg IV, 3 Rhode Island Red/Barred Plymouth Rocks c) 2-30 hr, peak (300 ppm) from 16-30 hr after 5 mg/kg oral, 3 white leghorns d) 2-36 hr, peak (800 ppm) 2 hr after 5 mg/kg oral, 3 Rhode Island Red/Barred Plymouth Rocks. Maryland Scintillation counting
2745 Eggs	a) 8 b) 8 Ingestion	a) 0.66+/-0.13-0.04+/-0.01 ppm b) 0.24+/-0.02-0.02+/-0.01 ppm	a) Not applicable b) Not applicable	a) 2-20 d, peak (3.46+/-0.50 ppm) on d 9 of 5 mg/kg/d for 11 d. White leghorn variety b) 2-20 d, peak (1.72+/-0.13 ppm) on d 9 of 5 mg/kg/d for 11 d. Rhode Island Red/Barred Plymouth Rock variety. Each time point a mean of 4-6 eggs. Maryland HPLC
BLOOD; EGGS; DELIBERATE EXPOSURE; MARYLAND; INSECTICIDES; ACCIDENTAL POISONING; BIOACCUMULATION; BIRDS; TERRESTRIAL Opdycke, J.C.; Menzer, R.E. 1984 Journal of Toxicology and Environmental Health 13:721-733				

Benzene, chloro-
108-90-7
C6-H5-Cl
MW 112.56, MP -45 C, BP 131.7 C, VP 10 mm Hg at 22.2 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2746 Body	a) 30 b) 30 c) 30 Ingestion	a) 4+/-1-8+/-4 ug/kg b) 60+/-10-76+/-11 ug/kg c) 1550+/-210-3430+/-450 ug/kg	a) Not applicable b) Not applicable c) Not applicable	a) Controls, 0-110 d, peak (23+/-6 ug/kg) 63 d, continual exposure to 10 ug/l b) 8-110 d, plateau during continual exposure to 115 ug/l c) 7-105 d, gradual increase during continual exposure to 2350 ug/l 5 time points/study, 6 fish/time point, accumulation did not affect differential red and white blood cell ratios. Canada AAS
BODY; FISHES; AQUATIC; DELIBERATE EXPOSURE; CANADA; METAL POISONING; CHLOROBENZENES; METHYL MERCURY COMPOUNDS; BIOACCUMULATION Niimi, A.J.; Lowe-Jinde, L. 1984 Archives of Environmental Contamination and Toxicology 13:303-311				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Auk, little
ALLE ALLE

Tissue	Cases Exposure Route	Range	Mean	General Information
2747 Adipose	7 Ingestion	Not given	0.40+/-0.08 ug/g Wet wt	Shot waterfowl. Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Body wt 170 g. Norway, Svalbard, Spitsbergen GC-EC
2748 Liver	9 Ingestion	Not given	0.014+/-0.004 ug/g Wet wt	Shot waterfowl. Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Body wt 170 g. Norway, Svalbard, Spitsbergen GC-EC

LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS

Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152

Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2749 Body	1	Not applicable	0.5 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analysed. Not detected <0.1 ppb. Japan, Osaka GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukwa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2750 Milk				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarised. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2751 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Clam

Tissue	Cases Exposure Route	Range	Mean	General Information
2752 Body		a) Not given b) Not given	a) <0.10 ng/g b) 0.64 ng/g	a) Site 1 b) Site 2 Collected 11/80. Pooled whole clams, mean sample wt 30 g Maine, Portland GC-EC
MAINE; BODY; DDT; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; PENTACHLOROPHENOL; PHTHALATES; BIOACCUMULATION; MOLLUSKS; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS Ray, L.E.; Murray, H.E.; Glam, C.S. 1983 Chemosphere 12(7/8):1031-1038				

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2753 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
2754 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Eagle, bald
HALIAEETUS LEUCOCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2755 Eggs	28	a) Not applicable b) 0.01-0.06 ppm c) 0.04-0.05 ppm d) 0.02-0.05 ppm e) Not applicable f) 0.02-0.10 ppm g) 0.01-0.26 ppm Fresh wet wt	a) 0.09 ppm b) 0.02 ppm c) 0.05 ppm d) 0.04 ppm e) 0.03 ppm f) 0.06 ppm g) 0.08 ppm Fresh wet wt	a) AK, 1976, 1 egg b) WI, 1976, 1978-79, 5 eggs c) OH, 1976, 2 eggs d) ME, 1974, 1976-79, 9 eggs e) DE, 1977, 1 egg f) MD, 1973, 1977, 3 eggs g) VA, 1976-77, 1979, 7 eggs Most often in ME and Chesapeake Bay area (20 of 44 eggs), rare elsewhere (8 of 79). GE-EC; GC-MS; Silica gel chrom.
EGGS; EAGLES; BIRDS; ENVIRONMENTAL EXPOSURE; ALASKA; ARIZONA; CALIFORNIA; DELAWARE; FLORIDA; LOUISIANA; MAINE; MARYLAND; MICHIGAN; MINNESOTA; NEW YORK; OHIO; OREGON; VIRGINIA; WISCONSIN; UNITED STATES; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; POPULATION EXPOSURE Wiemeyer, S.N.; Lamont, T.G.; Bunck, C.M.; Sindelar, C.R.; Gramlich, F.J.; Fraser, J.D.; Byrd, M.A. 1984 Archives of Environmental Contamination and Toxicology 13:529-549				

Eider
SOMATERIA MOLLISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2756 Adipose	8 Ingestion	Not given	0.13+/-0.02 ug/g Wet wt	Shot waterfowl. Diet of benthonic molluscs, above normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 2100 g. Norway, Svalbard, Spitsbergen GC-EC
2757 Liver	9 Ingestion	Not given	0.002+/-0.002 ug/g Wet wt	Shot waterfowl. Diet of benthonic molluscs, above normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 2100 g. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Fulmar
FULMARUS GLACIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2758 Adipose	7 Ingestion	Not given	1.7+/-0.4 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard; Spitsbergen GC-EC
2759 Liver	10 Ingestion	Not given	0.049+/-0.014 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard; Spitsbergen GC-EC

LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS

Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152

Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2760 Body	1	Not applicable	0.3 ppb wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Tottori GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
2761 Adipose	a) 135 b) 16 c) 20 Ingestion	a) 0.009-0.075 mg/kg b) Not detected-0.029 mg/kg c) 0.003-0.023 mg/g Wet wt	a) 0.038 mg/kg b) 0.012 mg/kg c) 0.009 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Grunt
PARAPRISTIPOMA TRILINEATUM

Tissue	Cases Exposure Route	Range	Mean	General Information
2762 Body	1	Not applicable	0.3 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Sanin GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Guillemot, Brunnich's
URIA LOMVIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2763 Liver	9 Ingestion	Not given	0.028+/-0.015 ug/g Wet wt	Shot waterfowl. Diet of fish, pelagic crustaceans. Lean nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen Disease found in one specimen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Gull, glaucous
LARUS HYPERBOREUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2764 Adipose	6 Ingestion	Not given	1.9+/-1.1 ug/g Wet wt	Shot waterfowl. Omnivorous scavengers, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard, Spitsbergen GC-EC
2765 Liver	11 Ingestion	Not given	0.14+/-0.14 ug/g Wet wt	Shot waterfowl, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Gull, glaucous

Tissue	Cases Exposure Route	Range	Mean	General Information
2766 Adipose				
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2767 Body	1	Not applicable	0.5 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Heron, black-crowned night
NYCTICORAX NYCTICORAX

Tissue	Cases Exposure Route	Range	Mean	General Information
2768 Eggs	147	0.21-0.24 ppm	0.23 ppm Geometric mean	Collected between May 17 and June 1, 1979. Possible sources: nesting and feeding habitats, or migration routes and wintering grounds in Mexico. Colorado; Wyoming GC; EC
EGGS; BIRDS; ENVIRONMENTAL EXPOSURE; COLORADO; WYOMING; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; OXYCHLORDANE; NONACHLOR; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE; POLYCHLORINATED BIPHENYLS; ANIMAL POPULATIONS; BIOLOGICAL MONITORING; PESTICIDE RESIDUES; LAND POLLUTION; WATER POLLUTION; AQUATIC McEwen, L.C.; Stafford, C.J.; Hensler, G.L 1984 Environmental Toxicology and Chemistry 3:367-376				

Killifish
ORYZIAS LATIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
2769 Body	a) 84 b) 132 Ingestion	a) 50,000-50,000 ppb b) 3,000-2,000 ppb	a) Not applicable b) Not applicable	a) 1-60 d, plateau of 50,000 ppb during time course. Initial exposure, 16 g in 4 L acetone sprayed on pond. 14 data points, 6 fish/point b) 1-30 d, peak (30,000 ppb) on d 15. Constant exposure to 1.18+/-0.07 ppb for 15 d. 22 data points, 6 fish/point Ranges of means. Estimated from graph. Japan GC-EC
BODY; DELIBERATE EXPOSURE; JAPAN; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; HEXACHLOROBENZENE; PENTACHLOROPHENOL; WATER POLLUTION; INDUSTRIAL POLLUTION; BIOACCUMULATION; FISHES; ANIMAL POPULATIONS; PESTICIDE RESIDUES; AQUATIC Sugiura, K.; Aoki, M.; Kaneko, S.; Daisaku, I.; Komatsu, Y.; Shibuya, H.; Suzuki, H.; Goto, M. 1984 Archives of Environmental Contamination and Toxicology 13:745-758				

Loon, common
GAVIA IMMER

Tissue	Cases Exposure Route	Range	Mean	General Information
2770 Adipose	a) 11 b) 57	a) Not given b) Not given	a) 0.03 ug/g b) 1.41+/-4.16 ug/g Wet wt	a) Unknown condition, collected in 1969, 62.0+/-13.1% fat b) Collected in 1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2771 Brain	a) 11 b) 56 c) 1 d) 28	a) Not given b) Not given c) Not given d) Not given	a) <0.01 ug/g b) <0.01 ug/g c) 0.01 ug/g d) 0.01+/-0.02 ug/g Wet wt	a) Unknown condition, collected in 1969, 7.76+/-1.12% fat b) Healthy, collected in 1978-79, 6.16+/-0.59% fat c) Emaciated, collected in 1978-79, 7.13% fat d) Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Loon, common
GAVIA IMMER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2772 Embryos	a) 12 b) 19	a) Not given b) Not given	a) 0.01 ug/g b) 0.01 ug/g Wet wt	a) Collected in 1978 from Algonquin-Parry Sound b) In 1979-80 from same. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2773 Liver	37	Not given	0.03+/-0.05 ug/g Wet wt	Collected in 1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2774 Muscle	a) 21 b) 37	a) Not given b) Not given	a) <0.01 ug/g b) 0.06+/-0.18 ug/g Wet wt	a) Healthy condition, collected in 1978-79, 2.59+/-1.16% fat b) Collected in 1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

EGGS; BRAIN; ADIPOSE TISSUE; LIVER; MUSCLES; FEATHERS; INTESTINES; EMBRYOS; DDT; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; MERCURY; CHLORINE ORGANIC COMPOUNDS; PESTICIDES; PESTICIDE RESIDUES; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; LUNGS; GIZZARD; BLOOD; HEART; KIDNEYS

Frank, R.; Lumsden, H.; Barr, J.F.; Braun, H.E. 1983 Archives of Environmental Contamination and Toxicology 12:641-654

Mackerel
PNEUMATOPHORUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2775 Body	1	Not applicable	5.4 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Shizuok- GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; hEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Mackerel, horse
TRACHURUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2776 Body	1	Not applicable	0.3 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Wakayama GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Merganser, red-breasted
MERGUS SERRATOR

Tissue	Cases Exposure Route	Range	Mean	General Information
2777 Eggs	a) 49 b) 49	a) Not applicable b) Not applicable	a) 0.06 ppm b) 0.07 ppm Wet wt Geometric means	a) Randomly selected b) Unhatched Collected 1977, pairs from same nests analyzed. Lake Michigan, northwestern islands GLC

EGGS; AQUATIC; BIRDS; WATERFOWL; ENVIRONMENTAL EXPOSURE; GREAT LAKES; BROMINATED HYDROCARBONS; CHLORINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; NONACHLOR; OXYCHLORDANE; PESTICIDES; POLYBROMINATED BIPHENYLS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION
Haseltine, S.D.; Heinz, G.H.; Hensler, G.L.; Reichel, W.L. 1983 Environmental Pollution 32:311-332

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Mink
MUSTELA VISION

Tissue	Cases Exposure Route	Range	Mean	General Information
2778 Adipose	a) 6 b) 6 c) 6 Ingestion	a) Not given b) Not given c) Not given	a) 35.71 +or- 13.81 mg/g b) 94.59 +or- 17.36 mg/g c) 626.10 +or- 12.01 mg/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
2779 Brain	a) 6 b) 6 c) 6 Ingestion	Not detected Not detected Not given	a) Not applicable b) Not applicable c) 36.31 +or- 3.52 mg/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
2780 Kidney	a) 6 b) 6 c) 6 Ingestion	a) Not detected b) Not given c) Not given	a) Not applicable b) 4.18 +or- 0.96 ng/g c) 14.61 +or- 5.01 ng/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Mink
MUSTELA VISION

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2781 Liver	a) 6 b) 6 c) 6 Ingestion	Not detected Not detected Not given	a) Not applicable b) Not aplicable c) 36.71 +or- 13.48 ng/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
2782 Muscle	a) 6 b) 6 c) 6 Ingestion	a) Not detected b) Not given c) Not given	a) Not applicable b) 1.42 +or- 0.50 ng/g c) 8.45 +or- 0.75 ng/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC

MINK; JUVENILES; BIOACCUMULATION; HEXACHLOROBENZENE; ADIPOSE TISSUE; BRAIN; KIDNEYS; LIVER; MUSCLES; MICHIGAN
Rush, G.P.; Smith, J.H.; Matta, K.; Bleavins, M.; Aulerich, R.J.; Ringer, R.K.; Hook, J.B. 1985 Environmental Research 31:116-124

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2783 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 3.8 ppb b) 0.4 ppb c) 2.0 ppb d) 1.0 ppb Wet wt	a) Osaka b) Tottori c) Ehime d) Kagawa Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2784 Adipose	a) 50 b) 28 c) 30 d) 7 Ingestion	a) Not detected-0.015 mg/kg b) 0.001-0.015 mg/kg c) 0.007-0.025 mg/kg d) 0.010-0.027 mg/kg Wet wt	a) 0.001 mg/kg b) 0.006 mg/kg c) 0.013 mg/kg d) 0.020 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Lake Wabamun, isolated area d) McGregor Lake Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Puffin
FRATERCULA ARCTICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2785 Brain	a) 10 b) 10 c) 10 Ingestion	a) 87-458 ng/g b) 81-631 ng/g c) 7-77 ng/g Fat wt	a) 266+/-115 ng/g b) 296+/-142 ng/g c) 38+/-23 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82 b) Chicks collected at Hernyken, Rost, 7/82 c) Chicks collected at Hernyken, Rost, 7/83. Norway GC
2786 Eggs	20 Ingestion	630-1493 ng/g Fat wt	986+/-217 ng/g Fat wt	Collected at Hernyken, Rost, during 5/83. Norway GC
2787 Liver	Ingestion	a) 292-8333 ng/g b) 93-1482 ng/g c) 185-2402 ng/g d) 15-225 ng/g e) 270-1269 ng/g f) 185-2402 ng/g g) 292-1864 ng/g h) 893-8333 ng/g Fat wt	a) 1604+/-1636 ng/g b) 665+/-425 ng/g c) 782+/-586 ng/g d) 37+/-17 ng/g e) 509+/-316 ng/g f) 934+/-768 ng/g g) 980+/-525 ng/g h) 2103+/-2028 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82, 10 cases b) Adults collected at Hornoy 7/82, 12 cases c) Rost, 7/82, chicks, 17 cases d) Rost, 7/83, chicks, 10 cases e) Rost, 1982, female chicks, 7 cases f) male chicks, 7 cases g) Rost, 1982, female adults, 8 cases h) Male adults, 11 cases. Norway GC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Puffin
FRATERCULA ARCTICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2788 Uropygial gland	19 Ingestion	a) 269-2403 ng/g b) 551-1890 ng/g c) 269-945 ng/g d) 1133-2403 ng/g Fat wt	a) 1047+/-596 ng/g b) 1354+/-901 ng/g c) 695+/-235 ng/g d) 1633+/-553 ng/g Fat wt	a) Collected at Hernyken, Rost, 7/82, 8 cases b) Collected at Hornoy, 7/82, 11 cases c) Females, collected at Hernyken, Rost, in 7/82, 5 cases d) Males, 3 cases. Norway GC

LIVER; BRAIN; UROPYGIAL GLAND; EGGS; WATERFOWL; AQUATIC; ENVIRONMENTAL EXPOSURE; NORWAY; ADULTS; JUVENILES; ALDRIN; DDE; HEXACHLOROBENZENE; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; DIELDRIN; PESTICIDES; BIOACCUMULATION; FOOD CONTAMINATION; WATER POLLUTION; INDUSTRIAL POLLUTION; PESTICIDE RESIDUES
Ingebrigtsen, K.; Skaare, J.U.; Teigen, S.W. 1984 Journal of Toxicology and Environmental Health 14:813-828

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2789 Body	a) 2 b) 1	a) 0.9-1.2 ppb wet wt b) Not applicable	a) 1.1 ppb b) 0.8 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analysed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Sauger
STIZOSTEDION CANADENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
2790 Adipose	a) 23 b) 32 c) 27 Ingestion	a) 0.007-0.022 mg/kg b) Not detected-0.021 mg/kg c) 0.012-0.230 mg/kg Wet wt	a) 0.018 mg/kg b) 0.008 mg/kg c) 0.039 mg/kg Wet wt	a) Red Deer River, below city of Red Deer b) South Saskatchewan River c) Oldman River Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevalon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Saury, Pacific
COLOLABIS SAIRA

Tissue	Cases Exposure Route	Range	Mean	General Information
2791 Body	1	Not applicable	2.6 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Iwate GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Scorpionfish
SEBASTES INERMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2792 Body	1	Not applicable	0.3 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Aomori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2793 Adipose	15 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.04+/-0.03 mg/kg b) 0.04+/-0.04 mg/kg c) 0.05+/-0.03 mg/kg d) 0.04+/-0.04 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Males had slightly higher levels than females. Minimal accumulation. No significant differences with age, site or sex. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2794 Brain	2 Ingestion	a) Not given b) Not given	a) 0.01+/-0.0 mg/kg b) 0.06+/-0.0 mg/kg	a) Tissue b) Extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Minimal accumulations. Small sample site. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
2795 Kidney	13 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) Not detected b) Not detected c) 0.27+/-0.30 mg/kg d) 0.05+/-0.13 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Extractable fat data showed some accumulation in juveniles. Small sample site. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
2796 Liver	8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.01+/-0.01 mg/kg b) Not detected c) 0.28+/-0.31 mg/kg d) Not detected	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Minimal accumulations. Sample site small. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
2797 Muscle	6 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.01+/-0.00 mg/kg b) Not detected c) 0.73+/-0.69 mg/kg d) Not detected	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Extractable fat data showed some accumulation in juveniles. Small sample site. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

SEALS; CHLORINE ORGANIC COMPOUNDS; ADIPOSE TISSUE; BLOOD; BRAIN; LIVER; KIDNEYS; MUSCLES; DDT; DIELDRIN; HEXACHLOROBENZENE; HEPTACHLOR EPOXIDE; ATLANTIC; ARCTIC; CANADA; BIOACCUMULATION; PESTICIDE RESIDUES; BIOLOGICAL MONITORING; AGE; GREENLAND; POLYCHLORINATED BIPHENYLS; SEX; METABOLITES; DDE; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Renald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:133-152

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 325-326 C, VP 1 mm Hg at 114.4 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2798 Kidney				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
2799 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Snake, water
NERODIA (NATRIX) RHOMBIFERA

Tissue	Cases Exposure Route	Range	Mean	General Information
2800 Adipose tissue	21	1.92-4.66 ppm	Not given	Thomas Point, Brusly and Belle Helene sites, collected between 1977 & 79. Residue detected in 21 of 21. Range of means. Louisiana, Mississippi River, near Baton Rouge GC-EC
2801 Liver	19	0.01-0.03 ppm	Not given	Brusly and Belle Helene sites, collected between 1977 & 79. Residue detected in 10 of 19. Range of means. Louisiana, Mississippi River, near Baton Rouge GC-EC
2802 Muscle	7	Not given	0.01 ppm	Belle Helene site, collected between 1977 & 79. Residue detected in 5 of 7. Louisiana, Mississippi River, near Baton Rouge GC-EC

ADIPOSE TISSUE; LIVER; MUSCLES; BODY; SNAKES; AQUATIC; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; LINDANE; ALDRIN; DIELDRIN; HEPTACHLOR EPOXIDE; HEXACHLOROBENZENE; DDT; DDE; DDE; POLYCHLORINATED BIPHENYLS; FISHES; AGRICULTURE; BIOMAGNIFICATION; BIOCONCENTRATION; PESTICIDE RESIDUES; WATER POLLUTION

Sabourin, T.D.; Stickle, W.B.; Michot, C.E.; Garton, D.W.; Mushinsky, H.R. 1984 Bulletin of Environmental Contamination and Toxicology 32:460-468

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Sucker, longnose
CATOSTOMUS CATOSTOMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2803 Adipose	54 Ingestion	Not detected-0.025 mg/kg Wet wt	0.018 mg/kg Wet wt	North Saskatchewan River below Edmonton Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
2804 Adipose	a) 40 b) 20 c) 16 d) 17 Ingestion	a) Not detected-0.020 mg/kg b) 0.002-0.009 mg/kg c) Not detected-0.006 mg/kg d) 0.004-0.019 Wet wt	a) 0.011 mg/kg b) 0.006 mg/kg c) 0.003 mg/kg d) 0.010 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Beaver River d) Lake Wabamun Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2808 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 325-326 C, VP 1 mm Hg at 114.4 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2606 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 2.3+/-0.2 ng/g b) 3.4+/-0.2 ng/g c) 2.7+/-0.9 ng/g d) 2.9+/-0.4 ng/g e) 4.5+/-0.8 ng/g f) 6.0+/-0.5 ng/g g) 13+/-0.8 ng/g h) 95+/-10 ng/g i) 160+/-29 ng/g j) 32.7 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 0.32+/-0.3 ng/L, day 8 e) Day 69 f) Day 119 g) 8.0+/-6.0 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g.
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291				

Walleye
STIZOSTEDION VITREUM VITREUM

Tissue	Cases Exposure Route	Range	Mean	General Information
2607 Adipose	a) 66 b) 21 c) 17 d) 28 Ingestion	a) Not detected-0.042 mg/kg b) 0.001-0.015 mg/kg c) Not detected-0.054 mg/kg d) 0.017-0.036 mg/kg Wet wt	a) 0.026 mg/kg b) 0.010 mg/kg c) 0.024 mg/kg d) 0.024 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River c) Bow River below Calgary d) St. Mary's River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Whitefish, lake
COREGONUS CLUPEAFORMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2808 Adipose	a) 21 b) 10 c) 14 d) 26 Ingestion	a) Not detected-0.031 mg/kg b) 0.001-0.010 mg/kg c) Not detected-0.034 mg/kg d) 0.009-0.031 mg/kg Wet wt	a) 0.014 mg/kg b) 0.011 mg/kg c) 0.013 mg/kg d) 0.021 mg/kg Wet wt	a) Red Deer River below city of Red Deer b) Lake Newell c) McGregor Lake d) Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Whitefish, mountain
PROSOPIUM WILLIAMSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
2809 Adipose	60 Ingestion	Not detected-0.026 mg/kg Wet wt	0.001 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Whiting
GADUS MERLANGUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2810 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
2811 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)
108-36-1
C6-H4-Br2
MW 235.92, MP -7 C, BP 218 C

Trout, rainbow
SALMO GAIRNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2812 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 2.3+/-0.90 ng/g b) 3.6+/-0.66 ng/g c) 4.0+/-1.1 ng/g d) 3.5+/-0.5 ng/g e) 3.4+/-0.48 ng/g	a) Day 8 b) Day 21 c) Day 38 d) Day 58 e) Day 90 Days held in flow-through tanks to determine bioconcentration factor 5 chemicals tested at low levels in mixtures with minimal interactive effects Water level 5.4+/-0.72 ng/L. Canada, Ontario GC-EC

BODY; TROUT; AQUATIC; DELIBERATE EXPOSURE; ONTARIO; CANADA; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; BIOCONCENTRATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION

Oliver, B.G.; Niimi, A.J. 1984 Environmental Toxicology and Chemistry 3:271-277

Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)
95-50-1
C6-H4-Cl2
MW 147.0, MP -17.5 C, BP 180-183 C, VP 1 mm Hg at 20.0 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2813 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, o-dichloro- (8 Cl); Benzene, 1,2-dichloro- (9 Cl)
95-50-1
$C_6H_4Cl_2$
MW 147.0, MP -17.5 C, BP 180-183 C, VP 1 mm Hg at 20.0 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2814 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 3.2+/-0.5 ng/g c) 2.0+/-1.5 ng/g d) 14+/-2.3 ng/g e) 12+/-3.8 ng/g f) 14+/-1.8 ng/g g) 390+/-66ng/g h) 630+/-190 ng/g i) 670+/-00ng/g j) <1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 47+/-17 ng/l, day 8 e) Day 69 f) Day 119 g) 940+/-160 ng/l, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 265 to 890 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamarasha River GC-EC
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291				

Benzene, p-dichloro- (8 Cl); Benzene, 1,4-dichloro- (9 Cl)
106-46-7
$C_6H_4Cl_2$
MW 147.01, MP 53 C, BP 174.12 C, VP 10 mm Hg at 54.8 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2815 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Benzene, p-dichloro- (8 Cl); Benzene, 1,4-dichloro- (9 Cl)
106-46-7
C6-H4-Cl2
MW 147.01, MP 53 C, BP 174.12 C, VP 10 mm Hg at 54.8 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2816 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, pentachloro-
608-93-5
C6-H-Cl5
MW 250.34, MP 86 C, BP 277 C

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2817 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, pentachloro-
608-93-5
C6-H-Cl5
MW 250.34, MP 86 C, BP 277 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2816 Body	52	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.46+/-0.18 ng/g b) 1.5+/-0.2 ng/g c) 0.9+/-0.4 ng/g d) 1.2+/-0.2 ng/g e) 4.1+/-0.7 ng/g f) 5.2+/-0.5 ng/g g) 84+/-2 ng/g h) 210+/-36 ng/g i) 220+/-25 ng/g j) 3.4 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 0.34+/-0.1 ng/L, day 8 e) Day 69 f) Day 119 g) 0.3+/-7.6 ng/L, day 7 h) Day 48 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291				

Benzene, 1,2,3-trichloro-
87-61-6
C6-H3-Cl3
MW 181.46, MP 52.6 C, BP 221 C, VP 1 mm Hg at 40 C

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2819 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Benzene, 1,2,3-trichloro-
87-61-6
C6-H3-Cl3
MW 181.46, MP 52.6 C, BP 221 C, VP 1 mm Hg at 40 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3820 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 2.2+/-0.4 ng/g c) 0.1+/-0.04 ng/g d) 4.8+/-0.8 ng/g e) 5.3+/-1.6 ng/g f) 5.3+/-0.8 ng/g g) 96+/-12 ng/g h) 210+/-61 ng/g i) 210+/-32 ng/g j) <0.1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 4.3+/-2 ng/L, day 8 e) Day 69 f) Day 119 g) 72+/-25 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 300 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291				

Benzene, 1,2,3,4-tetrachloro-
634-66-2
C6-H2-Cl4
MW 215.90, MP 47.5 C, BP 254 C at 760 mm Hg, VP 1 mm at 68.5 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
3821 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Benzene, 1,2,3,4-tetrachloro-
634-66-2
C6-H2-Cl4
MW 215.90, MP 47.5 C, BP 254 C at 760 mm Hg, VP 1 mm at 68.5 C

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3622 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 3.2 ng/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3626 Body	82	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.28+/-0.7 ng/g b) 1.8+/-0.4 ng/g c) 1.0+/-0.4 ng/g d) 2.8+/-0.6 ng/g e) 7.7+/-2.0 ng/g f) 7.6+/-1.0 ng/g g) 79+/-6 ng/g h) 350+/-92 ng/g i) 520+/-40 ng/g j) 0.06 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 1.4+/-0.3 ng/L, day 8 e) Day 69 f) Day 119 g) 26+/-15 ng/L, day 7 h) Day 45 i) Day 106 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 500 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamarasha River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE
Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,2,3,5-tetrachloro-
634-90-2
$C_6H_2Cl_4$
MW 215.90, MP 54.5 C, BP 246 C, VP 1 mm Hg at 58.2 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2824 Body				Review. Information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2824 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, 1,2,4-tribromo-
615-54-3
$C_6H_3Br_3$
MW 314.82, MP 44-45 C, BP 275 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2826 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.44+/-0.16 ng/g b) 1.3+/-0.26 ng/g c) 2.3+/-0.53 ng/g d) 2.1+/-0.30 ng/g e) 2.7+/-0.49 ng/g	a) Day 8 b) Day 21 c) Day 35 d) Day 56 e) Day 90 Days held in flow-through tanks to determine bioconcentration factor 5 chemicals tested at low levels in mixtures with minimal interactive effects Water level 0.58+/-0.11 ng/L. Canada, Ontario GC-EC

BODY; TROUT; AQUATIC; DELIBERATE EXPOSURE; ONTARIO; CANADA; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; BIOCONCENTRATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION
Oliver, B.G.; Niimi, A.J. 1984 Environmental Toxicology and Chemistry 3:271-277

Benzene, 1,2,4-trichloro-
120-82-1
C6-H3-Cl3
MW 181.46, MP 17 C, BP 213 C, VP 1 mm Hg at 38.4 C

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2827 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.3 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2828 Body	33	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.22+/-0.06 ng/g b) 4.7+/-0.7 ng/g c) 0.3+/-0.1 ng/g d) 4.0+/-0.8 ng/g e) 4.6+/-1.5 ng/g f) 4.4+/-0.8 ng/g g) 82+/-10 ng/g h) 190+/-54 ng/g i) 180+/-23 ng/g j) 0.6 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 110 d) 8.3+/-2 ng/L, day 8 e) Day 60 f) Day 110 g) 52+/-21, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 300 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamarasha River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE
Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,2,4,5-tetrachloro-
95-94-3
C6-H2-Cl4
MW 215.9, MP 138 C, BP 245 C, VP less than 0.1 mm Hg at 25 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2830 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2830 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2831 Body	33	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.7+/-0.7 ng/g b) 1.6+/-0.4 ng/g c) 0.6+/-0.3 ng/g d) 2.6+/-0.5 ng/g e) 5.7+/-1.5 ng/g f) 6.9+/-1.0 ng/g g) 76+/-5.5 ng/g h) 290+/-75 ng/g i) 320+/-39 ng/g j) 0.53 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 1.0+/-0.5 ng/L, day 8 e) Day 69 f) Day 119 g) 21+/-13 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 380 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,3-dichloro-
541-73-1
C6-H4-Cl2
MW 147.01, MP -24.8 C, BP 173 C, VP 1 mm Hg at 12.1 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
3832 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:75-86				

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3838 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 6.7+/-0.7 ng/g c) Not detected d) 14+/-2.3 ng/g e) 12+/-4.2 ng/g f) 13+/-2.2 ng/g g) 360+/-57 ng/g h) 600+/-100 ng/g i) 640+/-100 ng/g j) <1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 110 d) 28+/-5 ng/L, day 8 e) Day 60 f) Day 110 g) 600+/-150 ng/L, day 7 h) Day 42 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 265 to 390 g during study a)-i). Mean wt j) 5100 g. Canada, Great Lakes, Gamaraska River GC-EC
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291				

Benzene, 1,3,5-trichloro-
108-70-3
C6-H3-Cl3
MW 181.46, MP 63.4 C, BP 208.4 C (also reported as 208.5 C), VP 10 mm Hg at 78 C

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2854 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Prattle, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2855 Body	82	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 1.1+/-0.8 ng/g c) 0.2+/-0.1 ng/g d) 3.7+/-0.7 ng/g e) 4.4+/-1.3 ng/g f) 4.8+/-0.7 ng/g g) 81+/-10 ng/g h) 200+/-61 ng/g i) 200+/-26 ng/g j) <0.1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 2.3+/-0.4 ng/l, day 8 e) Day 60 f) Day 119 g) 45+/-20 ng/l, day 7 h) Day 43 i) Day 106 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 300 g during study, a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamarasha River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niimi, A.J. 1988 Environmental Science Technology 17:287-291

Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
70124-77-5
C26-H23-F2-N-O4
Minnow, sheepshead
CYPRINODON VARIEGATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2836 Body, whole	80	a) Not given b) Not given c) Not given d) Not given e) Not given	a) <0.5 mg/kg b) <0.5 mg/kg c) <0.5 mg/kg d) <0.5 mg/kg e) <0.5 mg/kg	a) Control b) 0.03 ug/L, exposure concentration c) 0.06 ug/L d) 0.12 ug/L e) 0.27 ug/L c) -e) Significant weight reduction. 8% and 0% survival at 0.5 and 1.0 ug/L, exposures. Inactivity, bent and swimming in circles, abnormal movement GC/MS
AQUATIC; FISHES; BODY; DELIBERATE EXPOSURE; INSECTICIDES; BIOCONCENTRATION; BIOLOGICAL MONITORING; POISONING Hansen, D.J.; Goodman, L.R.; Moore, J.C.; Higdon, P.K. 1985 Environmental Toxicology and Chemistry 2:251-258				

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
51630-58-1
C26-H22-Cl-N-O3
MW 419.88
Minnow, sheepshead
CYPRINODON VARIEGATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2837 Body, whole	80	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) <0.10 mg/kg b) 0.13 mg/kg c) 0.20 mg/kg d) 1.4 mg/kg e) 1.1 mg/kg f) 3.2 mg/kg	a) Control b) 0.28 ug/L, exposure concentration c) 0.56 ug/L d) 2.0 ug/L e) 3.3 ug/L f) 3.9 ug/L 95% survival at 7.6 ug/L, 36% at 3.9 ug/L. Fish in d) and e) were significantly shorter than a), b) and c). Lethargy, curled position, infrequent feeding GC/MS
AQUATIC; FISHES; BODY; DELIBERATE EXPOSURE; INSECTICIDES; BIOCONCENTRATION; BIOLOGICAL MONITORING; POISONING Hansen, D.J.; Goodman, L.R.; Moore, J.C.; Higdon, P.K. 1985 Environmental Toxicology and Chemistry 2:251-258				

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
51630-58-1
C25-H22-Cl-N-O3
MW 419.93
Mosquitofish
GAMBUSIA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2630 Body	1	Not given	0.32 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Mouse, house
MUS MUSCULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2630 Body	3	Not given	0.01 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Shiner, golden
NOTEMIGONUS CRYSOLEUCUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2640 Body	1	Not given	0.47 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
51630-58-1
C25-H22-Cl-N-O3
MW 419.93
Snake, ribbon
THAMNOPHIS PROXIMUS PROXIMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2841 Body	1	Not given	0.12 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION				
Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg
Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2842 Adipose	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.22 ng b) 0.23 ng c) 0.21 ng d) 0.16 ng /0.12 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Little accumulation. Sweden Radiometry
2843 Bile	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 11 ng b) 68 ng c) 184 ng d) 82 ng /0.024 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Data includes gallbladder. Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. At 0.8, 8.5 d gallbladder and bile (0.12% tot. body wt) had >50% radiotracer. After 8.5 d most tracer (>93%) as metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2844 Body	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 53 ng b) 126 ng c) 301 ng d) 294 ng /14.27 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Sum of 16 individual organ/tissue values. Mean total body wt 20.1 g. Results expressed as ng benzo(a)pyrene, but include metabolites. After 8.5 d >93% of tracer as metabolites. Autoradiography findings given. Sweden Radiometry
2845 Brain	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.20 ng b) 0.15 ng c) 0.087 ng d) 0.089 ng /0.088 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2846 Eye	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.004 ng b) 0.007 ng c) 0.028 ng d) 0.025 ng /0.05 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2847 Gall bladder	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 11 ng b) 68 ng c) 184 ng d) 82 ng /0.024 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Data includes bile. Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. At 0.8, 8.5 d gallbladder and bile (0.12% tot. body wt) had >50% radio-tracer. After 8.5 d most tracer (>93%) as metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2848 Gas bladder	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given	a) 0.27 ng b) 0.34 ng c) 0.33 ng /0.11 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2849 Gills	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 15 ng b) 14 ng c) 15 ng d) 7.4 ng /0.48 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Accumulated significant amounts. After 8.5 d most tracer (>93%) as metabolites. Discussion of autoradiography findings given. Sweden Radiometry
2850 Gonads	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given	a) 0.056 ng b) 0.17 ng c) 0.15 ng /0.032 wet wt	a) 0.14 d b) 0.80 d c) 8.5 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2851 Heart	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.12 ng b) 0.10 ng c) 0.070 ng d) 0.046 ng /0.028 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2852 Intestine	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.57 ng b) 1.6 ng c) 13 ng d) 113 ng /0.24 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. After 8.5 d most (<93%) as metabolites. At 23 d 50% radiotracer in gut/contents. Autoradiography findings given. Sweden Radiometry
2853 Kidney	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 1.8 ng b) 3.9 ng c) 12 ng d) 10 ng /0.12 wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Accumulated significant amounts, concentrated in distal section. After 8.5 d most (>93%) tracer as metabolites. Autoradiography findings given. Sweden Radiometry
2854 Liver	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 9.6 ng b) 15 ng c) 37 ng d) 14 ng /0.34 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Accumulated significant amounts. After 8.5 d most tracer (>93%) as metabolites. Discussion of autoradiograpy findings given. Sweden Radiometry
2855 Muscle	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 6.6 ng b) 7.1 ng c) 4.0 ng d) 7.0 ng /10 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 312 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3856 Scales	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 2.6 ng b) 2.8 ng c) 1.6 ng d) 0.88 ng /0.48 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 28 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Dermal uptake may be significant. Sweden Radiometry
3857 Skin	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 2.1 ng b) 3.3 ng c) 2.4 ng d) 1.2 ng /1.5 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 28 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Dermal uptake may be significant. Sweden Radiometry
3858 Spleen	5 Ingestion Inhalation Dermal Immersion	a) Not given b) Not given c) Not given d) Not given	a) 0.063 ng b) 0.076 ng c) 0.056 ng d) 0.041 ng /0.018 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 28 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Scintillation counting
3859 Stomach	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.41 ng b) 0.63 ng c) 0.37 ng d) 0.31 ng /0.24 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 28 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. After 8.5 d most tracer (>93%) as metabolites. At 28 d 50% tracer in gut/contents. Autoradiography findings given. Sweden Radiometry

FISHES; CARCINOGEN; METABOLISM; SWEDEN; BILE; GALL BLADDER; LIVER; GILLS; INTESTINES; KIDNEYS; MUSCLES; SKIN; SCALES; BLOOD; STOMACH; ADIPOSE TISSUE; GAS BLADDER; GONADS; BRAIN; SPLEEN; HEART; EYE; BIOCONCENTRATION; BIOACCUMULATION; POLYCYCLIC AROMATIC HYDROCARBONS; AQUATIC; DELIBERATE EXPOSURE; BODY; MEASUREMENT METHODS

Balk, L.; Meijer, J.; DePierre, J.W.; Appelgren, L.-E. 1984 Toxicology and Applied Pharmacology 74:430-449

Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)
90-98-2
C13-H8-Cl2-O
MW 251.13, MP 147-148 C, BP 353 C at 757 mm Hg

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
2860 Eggs	a) 2 b) 5 Ingestion	a) Not given b) Not given	a) 0.018 ppm b) 0.275 ppm Wet wt	a) Collected 1981 b) 1982. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2861 Eggs	a) 4 b) 2 Ingestion	a) Not given b) Not given	a) 0.073 ppm b) 0.084 ppm Wet wt	a) Collected 1981 b) 1982. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Clam
MEGAPITARIA SQUALIDA

Tissue	Cases Exposure Route	Range	Mean	General Information
2862 Body	16	Not given	0.84 ppb Wet wt	Collected 7/80. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1988 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Crab
CALLINECTES ARCUATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2863 Body	a) 5 b) 5	a) Not given b) Not given	a) 0.12 ppb b) 0.47 ppb Wet wt	a) Caimanero, 10/80 b) Yavaros, 1/81. Mexico (NW), Sonora, Yavaros lagoon system; Mexico (NW), Sinaloa, Huizache-Caimanero lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Fish
CENTROPOMUS PECTINATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2864 Muscle	a) 1 b) 1	a) Not given b) Not given	a) 0.40 ppb b) 0.43 ppb Wet wt	a) Collected 10/80 b) Collected 1/81. Mexico (NW), Sinaloa, Huizache-Caimanero Lagoon complex GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Flounder
PARALICHTYS WOOLINARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2865 Muscle	1	Not given	1.11 ppb Wet wt	Collected 1/81. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Gudgeon
GOBIO GOBIO

Tissue	Cases Exposure Route	Range	Mean	General Information
2866 Brain	47	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 129+/-27 ppb b) 145+/-18 ppb c) 108+/-10 ppb d) 149+/-16 ppb e) 899+/-206 ppb f) 3527+/-605 ppb g) 9008+/-2416 ppb	a) 0.22+/-0.08 ppb b) 1.13+/-0.03 ppb c) 7.5+/-0.26 ppb d) 28.5+/-0.35 ppb e) 37.0+/-1.30 ppb f) 72.0+/-4.71 ppb g) 142.0+/-4.04 ppb Concentrations in water for 96 hr Increased mortality above 28.5 ppb GC-EC
2867 Liver	47	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 46+/-6 ppb b) 224+/-43 ppb c) 254+/-33 ppb d) 187+/-43 ppb e) 2160+/-696 ppb f) 5005+/-621 ppb g) 8257+/-1556 ppb Concentrations in water for 96 hr	a) 0.22+/-0.08 ppb b) 1.13+/-0.03 ppb c) 7.5+/-0.26 ppb d) 28.5+/-0.35 ppb e) 37.0+/-1.30 ppb f) 72.0+/-4.71 ppb g) 142.0+/-4.04 ppb Concentrations in water for 96 hr GC-EC
2868 Muscle	50	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 20+/-4 ppb b) 22+/-2 ppb c) 87+/-18 ppb d) 13+/-4 ppb e) 193+/-43 ppb f) 1068+/-157 ppb g) 593+/-121 ppb	a) 0.22+/-0.08 ppb b) 1.13+/-0.03 ppb c) 7.5+/-0.26 ppb d) 28.5+/-0.35 ppb e) 37.0+/-1.30 ppb f) 72.0+/-4.71 ppb g) 142.0+/-4.04 ppb Concentrations in water for 96 hr Increased mortality above 28.5 ppb GC-EC
BELGIUM; MUSCLES; LIVER; BRAIN; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; LINDANE; BIOACCUMULATION; FISHES Marcelle, C.; Thome, J.P. 1983 Bulletin of Environmental Contamination and Toxicology 31:453-458				

Mackerel
SCOMBEROMORUS MACULATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2869 Muscle	a) 2 b) 1	a) Not given b) Not given	a) 0.79 ppb b) 0.60 ppb Wet wt	a) 10/80 b) 1/81. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Mullet, striped
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2870 Muscle	a) 8 b) 11 c) 3 d) 6 e) 4	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 2.50 ppb b) 1.36 ppb c) 1.40 ppb d) 1.69 ppb e) 1.77 ppb Wet wt	a) Moron carit, 7/81 b) Yavaros, 10/80 c) Yavaros, 1/81 d) Yavaros, 4/81 e) Caimanero, 1/81. Mexico (NW), Sonora, Yavaros lagoon system; Mexico (NW), Sinaloa, Huizache-Caimanuo lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Mullet, white
MUGIL CUREMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2871 Muscle	4	Not given	1.22 ppm Wet wt	Collected 1/81. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Shrimp, blue
PENAEUS STYLIROSTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2872 Body	a) 12 b) 15 c) 51 d) 13	a) Not given b) Not given c) Not given d) Not given	a) 0.23 ppb b) 0.11 ppb c) 0.46 ppb d) 1.00 ppb Wet wt	a) Moron carit, 7/80 b) Zavara, 10/80 c) Yavara, 10/81 d) Caimanero, 1/81. Mexico (NW), Sonora, Yavaros lagoon system; Mexico(NW), Sinaloa, Huizache-Caimanuo lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Shrimp, rock
TRACHYPENAEUS SIMILIS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2878 Body	8	Not given	0.78 ppb Wet wt	Collected 1/81. Mexico (NW), Somora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1985 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Shrimp, white
PENAEUS VANAMEI

Tissue	Cases Exposure Route	Range	Mean	General Information
2874 Body	a) 12 b) 12	a) Not given b) Not given	a) 0.60 ppb b) 1.71 ppb Wet wt	a) Caimanero, 10/80 b) Morontarit, 7/81. Mexico (NW), Somora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1985 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Tilapia
TILAPIA sp

Tissue	Cases Exposure Route	Range	Mean	General Information
2875 Muscle	Ingestion	a) 1.6-4.2 ug/L b) 1.6-9.7 ug/L c) 2.0-14.6 ug/L d) 0.8-2.5 ug/L e) 0.7-3.1 ug/L f) 0.5-2.7 ug/L g) 0.8-3.0 ug/L h) 2.3-4.9 ug/L	a) 3.0 ug/L b) 4.7 ug/L c) 8.5 ug/L d) 1.4 ug/L e) 1.6 ug/L f) 1.3 ug/L g) 0.8 ug/L [sic] h) 3.1 ug/L	a) Aswan b) Asslut c) Cairo d) El-Mansora e) Paraskour f) Edfina g) El-Mahmodia canal h) Abo El-Gheit canal 80 composite samples, approx 5 fish each. Sites a) near Lake Nasser, e), f) near Mediterranean Sea on the Nile river, g), h) in agricultural areas polluted with pesticides (application, leachates). Egypt, Nile River and canals GC-EC
PESTICIDE RESIDUES; FISHES; MUSCLES; EGYPT; AQUATIC; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; BIOLOGICAL MONITORING; WATER POLLUTION; METABOLITES; LINDANE; INSECTICIDES; ENVIRONMENTAL EXPOSURE; HEXACHLOROCYCLOHEXANE Aly, O.A.; Badawy, M.I. 1984 Bulletin of Environmental Contamination and Toxicology 33:246-252				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Auk, little
ALLE ALLE

Tissue	Cases Exposure Route	Range	Mean	General Information
2677 Adipose	7 Ingestion	Not given	7.1+/-1.2 ug/g Wet wt	Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Norway, Svalbard; Spitsbergen GC-EC
2678 Liver	9 Ingestion	Not given	0.2+/-0.08 ug/g Wet wt	Shot waterfowl. Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Body wt 170 g. Norway, Svalbard; Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjoe-Hansen, B. 1984 Environmental Pollution (Series A) 35:145-152				

Bass, black sea
CENTROPRISTIS STRIATA

Tissue	Cases Exposure Route	Range	Mean	General Information
2679 Body	1	Not applicable	0.4 mg/l Wet wt	Edible tissues, 1978-80 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2680 Body	1	Not applicable	100 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected < 1.0 ppb. Japan, Osaka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1985 Archives of Environmental Contamination and Toxicology 12:615-620				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Bass, largemouth
MICROPTERUS SALMOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
3681 Body	a) 5 b) 5	a) 0.36-0.74 ppm b) 0.23-0.23 ppm Wet wt	a) 0.50 ppm b) 0.24 ppm Wet wt	a) Lake Providence, 7.3% lipids b) Lake Bruin, 9.2% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are fish and crayfish. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Bass, striped
MORONE SAXATILIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3582 Body	8	0.1-3.0 mg/l Wet wt	1.3 mg/l Median, 0.8 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Blackbird, red-winged
AGELAIUS PHOENICEUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2883 Brain	a) 5 b) 5 Ingestion	a) 500-600 ppm b) 100-200 ppm Wet wt	a) 550 ppm b) 134+/-30.1 ppm Wet wt	a) Died within 6 d. 50% mortality point b) Survived, sacrificed at 50% mortality point 1500 ppm dietary dose. Data estimated from graph. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC
BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Bleak (fish)
ALBURNUS ALBURNUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2884 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Bluefish
POMATOMUS SALTATRIX

Tissue	Cases Exposure Route	Range	Mean	General Information
2885 Body	11	0.2-16.5 mg/l Wet wt	2.1 mg/l Median, 0.8 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Bluegill
LEPOMIS MACROCHIRUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2886 Body	a) 5 b) 1	a) 0.18-0.24 ppm b) Not detected-0.10 ppm Wet wt	a) 0.21 ppm b) 0.06 ppm Wet wt	a) Lake Providence, 3.5% lipids b) Lake Bruin, 2.2% lipids Collected 6/15-9/25/80. Secondary consumers, major foods are fish. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Duckett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Brant, American
BRANTA BERNICLA

Tissue	Cases Exposure Route	Range	Mean	General Information
2887 Adipose	1	Not applicable	0.96 ug/g Wet wt	Adult collected 10/79 (dead of trauma). Subcutaneous fat. Level highest of 4 tissues analyzed. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Lake Ontario GC-EC
2888 Brain	1	Not applicable	0.22 ug/g Wet wt	Adult collected 1/80 (dead of trauma) New York, Long Island GC-EC
2889 Liver	2	0.24-0.90 ug/g Wet wt	0.57 ug/g Wet wt	Adults collected 1/80 and 10/79, dead of trauma. Highest level in Lake Ontario bird. New York, Long Island and Lake Ontario GC-EC
2890 Muscle	1	Not applicable	0.01 ug/g Wet wt	Adult collected 10/79 (dead of trauma). Breast muscle. Substantially lower levels than in fat or liver. New York, Lake Ontario GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Bufflehead
BUCEPHALA ALBEOLA

Tissue	Cases Exposure Route	Range	Mean	General Information
2891 Adipose	3	0.24-55.0 ug/g Wet wt	18.68 ug/g Wet wt	Adult, 2 juveniles collected 10/79 and 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara and Hudson Rivers GC-EC
2892 Liver	2	0.07-0.08 ug/g Wet wt	0.075 ug/g Wet wt	Adult, juvenile collected 10/79 and 12/79 New York, Niagara and Hudson Rivers GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Bufflehead
BUCEPHALA ALBEOLA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2893 Muscle	3	0.05-0.58 ug/g Wet wt	0.25 ug/g Wet wt	Adult, 2 juveniles collected 10/79 and 12/79. Breast muscle. Substantially lower levels than in fat. New York, Niagara and Hudson Rivers GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Butterfish
PEPRILUS TRIACANTHUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2894 Body	4	<0.1-0.9 mg/l Wet wt	0.5 mg/l Median, 0.5 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Carp
CYPRINUS CARPIO

Tissue	Cases Exposure Route	Range	Mean	General Information
2895 Muscle		a) Not given b) Not given c) Not given d) Not given e) Not given	a) 39 ppb b) 52 ppb c) 16 ppb d) 6 ppb e) 5 ppb Estimated from graph	a) 1976 b) 1977 c) 1978 d) 1980 e) 1981 Declines of body burdens attributed to effluent controls by paper mills. Fish length 22-26 in. Wisconsin, Lower Fox River, Little Lake Butte des Morts GC-EC
WISCONSIN; MUSCLES; BIOACCUMULATION; BIOINDICATORS; FISHES; INDUSTRIAL EMISSIONS; WATER POLLUTION; POLYCHLORINATED BIPHENYLS Sullivan, J.R.; Delfino, J.J.; Buelow, C.R.; Sheffy, T.B. 1983 Bulletin of Environmental Contamination and Toxicology 30:58-64				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Catfish, channel
ICTALURUS PUNETATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2896 Body	4	0.77-1.47 ppm Wet wt	1.00 ppm Wet wt	Lake Providence, 2.9% lipids. Collected 6/15-9/25/80. Tertiary consumers, major foods are fish and insects. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH
Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Chicken
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2897 Adipose	24 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.24 mg/kg b) 0.97 mg/kg c) 30.6 mg/kg d) 0.43 mg/kg e) 34.7 mg/kg f) 0.00 mg/kg g) 54.0 mg/kg h) 47.3 mg/kg	a) Control, 27 d b) 0.16 mg/kg residue, 27 d c) 9.03 mg/kg residue, 27 d d) 0.07 mg/kg technical, 27 d e) 8.02 mg/kg technical, 27 d f) Control, 20 d, liver fat g) 9.03 mg/kg residue, 20 d, liver fat h) 8.02 mg/kg technical, 20 d, liver fat Totals in body fat (a)-e)) and liver fat (f)-h)) after diet with lard from Aroclor 1254-treated swine (residue) or Aroclor 1254 (technical) in control lard. Extensive metabolite (18 chlorobiphenyls) data given. Metabolite ratios changed depending upon source of contaminant, location of adipose, or dosage. 8 cases/study. Netherlands GC-EC

ADIPOSE TISSUE; DELIBERATE EXPOSURE; JUVENILES; NETHERLANDS; CHICKENS; POLYCHLORINATED BIPHENYLS; CHLORINE ORGANIC COMPOUNDS; ANIMAL FEEDS; BIOACCUMULATION; FOOD CONTAMINATION; METABOLISM; METABOLITES; BIRDS; TERRESTRIAL
Hansen, L.G.; Tuinstra, L.G.M.T.; Kan, C.A.; Strik, J.J.T.W.A.; Koeman, J.H. 1983 Journal of Agricultural Food Chemistry 31:254-260

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Chironomid
CHIRONOMUS PLUMOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2800 Body	Ingestion	a) Not given b) Not given c) Not given d) 302-4845 ug/g e) 665-5130 ug/g f) 170-5514 ug/g g) Not given h) Not given Extractable fat	a) 4.7 ug/g b) 7.7 ug/g c) 5.8 ug/g d) Not given e) Not given f) Not given g) 10.0+/-2.6 ug/g h) 8.9+/-0.9 ug/g Extractable fat	a) Larvae, Lake Havgardssjon sediment b) Adults, lake sediment c) Exuviae, lake sediment d) Larvae, treated lake sediment e) Adults, treated lake sediment f) Exuviae, treated lake sediment g) Larvae in sewage treatment plant sediment h) Adults from sewage sediment Lake sediment (from lab study) 0.027 ug/g dry wt, treated lake sediment (from lab study) 2.9-60.8 ug/g dry wt, sewage sediment (from field study) 0.292 ug/g dry wt. Sweden, southern area GC
CHIRONOMIDS; AQUATIC; TERRESTRIAL; ADULTS; POLYCHLORINATED BIPHENYLS; LARVAE; SEDIMENTS; SWEDEN; BIOACCUMULATION; BIOMAGNIFICATION; SEWAGE; LIPIDS Larsson, P. 1984 Environmental Pollution (Series A) 34:283-289				

Chub
LENCISCUS CEPHABUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2800 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2000 Body, whole	9	10-44 ug/kg Dry wt	21 ug/kg Dry wt Median	Trend in concentration increase from inorganic to organic to living material. August 1979-May 1980, sampling dates. Non-point sources. No significant seasonal, temporal or spatial variablity reported. Florida, Apalachicola River GC-EC
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2001 Body	a) 218 b) 136 c) 96 d) 262 e) 370 Ingestion	a) Not detected-0.06 ug/g b) Not detected-0.05 ug/g c) Not detected-0.08 ug/g d) Not detected-0.010 ug/g e) Not detected-0.010 ug/g Wet wt	a) 0.02 ug/g b) 0.02 ug/g c) 0.03 ug/g d) 0.02 ug/g e) 0.010 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2002 Body	a) 26 b) 7 c) 18 d) 115 e) 34 Ingestion	a) Not detected-0.06 ug/g b) Not detected-0.05 ug/g c) Not detected-0.08 ug/g d) Not detected-0.10 ug/g e) Trace-0.030 ug/g Wet wt	a) 0.02 ug/g b) 0.02 ug/g c) 0.03 ug/g d) 0.02 ug/g e) 0.01 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for organochlorine residues in shellfish 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Cod
GADUS MOCHUA

Tissue	Cases Exposure Route	Range	Mean	General Information
2903 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Coot, American
FULICA AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
2904 Adipose	2	10.0-14.0 ug/g Wet wt	12.0 ug/g Wet wt	Juveniles collected 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Pastel, M.J.; Kim, J S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Tissue	Cases Exposure Route	Range	Mean	General Information
2905 Body	2	Not detected-0.45 ppm Wet wt	0.11 ppm Wet wt	Lake Providence, 10.6% lipids. Collected 2/80. Secondary consumers. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH
Niethammer, K.R.; White, D.H.; Beckett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Coot, American
FULICA AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
2906 Liver	2	0.55-0.87 ug/g Wet wt	0.71 ug/g Wet wt	Juveniles collected 12/79 New York, Hudson River GC-EC
2907 Muscle	2	0.51-0.93 ug/g Wet wt	0.72 ug/g Wet wt	Juveniles collected 12/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Cormorant, cape
PHALACROCORAX CAPENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2908 Eggs	5	0.07-0.43 ug/g	0.21 ug/g	7 eggs analyzed. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE

de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Cormorant, white-breasted
PHALACROCORAX CARBO

Tissue	Cases Exposure Route	Range	Mean	General Information
2909 Eggs	9	0.17-3.00 ug/g	0.89 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE

de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Cottonmouth
AGKISTRODON PISCIVOROUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2910 Body	a) 10 b) 3	a) 0.20-1.61 ppm b) Not detected-0.42 ppm Wet wt	a) 0.53 ppm b) 0.08 ppm Wet wt	a) Lake Providence, 4.3% lipids b) Lake Bruin, 2.5% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are snakes, fish and frogs. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH
Niethammer, K.R.; White, D.H.; Bashett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:69-74

Cowbird, brown-headed
MOLOTHRUS ATER

Tissue	Cases Exposure Route	Range	Mean	General Information
2911 Brain	a) 5 b) 5 Ingestion	a) 400-500 ppm b) 80-100 ppm Wet wt	a) 450 ppm b) 88+/-10.7 ppm Wet wt	a) Died within 7 d, 50% mortality point b) Survived, sacrificed at 50% mortality point 1500 ppm dietary dose. Estimated from graph. Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC

BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL
Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2912 Body	a) 3 b) 14 c) 9 d) 22 Ingestion	a) Data not available b) Not detected-0.06 ug/g c) 0.01-0.30 ug/g d) Not detected-0.80 ug/g Wet wt	a) Data not available b) 0.02 ug/g c) 0.04 ug/g d) 0.015 ug/g Wet wt	a) 1976 b) 1977 c) 1979 d) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small (none 1978), mostly in 1979-1980, not possible to see yearly trend. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Crab, Mediterranean shore
CARCINUS MEDITERRANEUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2918 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Croaker, white
GENYONEMUS LINEATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2914 Muscle	60	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.20 +or- 0.04 mg/kg b) 0.21 +or- 0.04 mg/kg c) 0.07 +or- 0.016 mg/kg d) 0.018 +or- 0.003 mg/kg e) 0.036 +or- 0.006 mg/kg f) 0.013 +or- 0.002 mg/kg Wet wt	a) Uncooked b) Pan fried c) Pan fried, adjusted to 65% wt loss during frying d) Uncooked e) Pan fried f) Pan fried, adjusted to 28% wt loss during frying Collected 5-6/81 in Santa Monica Bay a)-c), and Orange County, Abalone Point d)-f). Composite fillet samples. Fish wt 9-38 g, length 10-13 cm California (5) GC-EC

MUSCLES; CALIFORNIA; BIOACCUMULATION; FISHES; WATER POLLUTION; DDT; POLYCHLORINATED BIPHENYLS
Puffer, H.W.; Gossett, R.W. 1983 Bulletin of Environmental Contamination and Toxicology 30:65-73

Cunner
TAUTOGOLABRUS ADSPERSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2915 Body	2	20-57 mg/l Wet wt	38 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriv (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Cuttlefish

Tissue	Cases Exposure Route	Range	Mean	General Information
2916 Muscle	2	0.1-0.3 ppm Wet wt	0.2 ppm Wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS

CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES
Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3):291-298

Dogfish
Probably MUSTELUS CANIS or SQUALUS ACANTHIAS

Tissue	Cases Exposure Route	Range	Mean	General Information
2917 Body	1	Not applicable	0.2 mg/l Wet wt	Edible tissues, 1978-80 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1986 Environmental Science and Technology 18:22A-27A

Dolphin, striped
STENELLA COERULEOALBA

Tissue	Cases Exposure Route	Range	Mean	General Information
2918 Adipose	4 Ingestion	2800-4100 ug/kg	3700 ug/kg	Seawater levels 0.04-0.50 ng/l (mean 0.26 ng/l). Bioconcentration factor 13,000. Pacific Ocean GC-EC

BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE
Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738

Dove, mourning
ZENAIDURA MACROURA

Tissue	Cases Exposure Route	Range	Mean	General Information
2919 Adipose	1	<0.0001-0.3718 ppm	0.0930 ppm	None in 8 birds (same species) or in other tissues. Illinois, Vermilion and Shelby Counties GC-EC

ADIPOSE TISSUE; BRAIN; MUSCLES; LIVER; HEART; TERRESTRIAL; BIRDS; ENVIRONMENTAL EXPOSURE; ILLINOIS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FOOD CONTAMINATION; PESTICIDE RESIDUES
Edwards, W.R.; Dusan, R.E.; Siemers, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:407-414

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Duck, black
ANAS RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
2020 Adipose	8	1.8-19.0 ug/g Wet wt	6.78 ug/g Wet wt	7 adults, 1 juvenile shot 10/79, 11/79 and 1/80. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River and Long Island GC-EC
2021 Brain	8	0.02-0.94 ug/g Wet wt	0.25 ug/g Wet wt	7 adults, 1 juvenile shot 10/79, 11/79 and 1/80 New York, Hudson River and Long Island GC-EC
2022 Liver	8	0.45-1.0 ug/g Wet wt	0.63 ug/g Wet wt	8 adults shot 10/79 and 1/80 New York, Hudson River and Long Island GC-EC
2023 Muscle	8	0.06-0.34 ug/g Wet wt	0.16 ug/g Wet wt	7 adults, 1 juvenile shot 10/79, 11/79 and 1/80. Breast muscle. Substantially lower levels than in fat. New York, Hudson River and Long Island GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Postel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
2024 Adipose	16	0.01-36.0 ug/g Wet wt	6.69 ug/g Wet wt	12 adults, 3 juveniles shot 10/79. Subcutaneous fat. Level highest of 4 tissues analyzed. No significant difference in levels due to age, sex or collection site among 17 total species. FDA tolerance level of 3.0 ppm in fat exceeded. NY and NJ hunters warned about consuming contaminated waterfowl. New York, Hudson River area GC-EC
2025 Brain	14	0.03-5.0 ug/g Wet wt	0.46 ug/g Wet wt	11 adults, 3 juveniles shot 10/79 New York, Hudson River area GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Duck, mallard
ANAS PLATYRHYNCHOS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2026 Liver	12	0.05-1.6 ug/g Wet wt	0.52 ug/g Wet wt	9 adults, 3 juveniles shot 10/79. New York, Hudson River area GC-EC
2027 Muscle	15	0.05-0.79 ug/g Wet wt	0.40 ug/g Wet wt	12 adults, 3 juveniles shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River area GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:875-881				

Duck, mallard/black hybrid
ANAS PLATYRHYNCHOS/RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
2028 Brain	1	Not applicable	0.14 ug/g Wet wt	Adult shot 12/79. New York, Long Island GC-EC
2029 Muscle	1	Not applicable	0.16 ug/g Wet wt	Adult shot 12/79. Breast muscle New York, Long Island GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:875-881				

Duck, white Pekin
ANAS PLATYRHYNCHOS DOMESTICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2030 Adipose	1	Not applicable	0.14 ug/g Wet wt	Adult domestic bird sacrificed 10/79. Subcutaneous fat. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Westchester County GC-EC
2031 Brain	2	0.26-1.2 ug/g Wet wt	0.74 ug/g Wet wt	Adult domestic birds sacrificed 10/79 and 11/79 New York, Westchester County and Long Island GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Duck, white Pekin
ANAS PLATYRHYNCHOS DOMESTICUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2932 Liver	2	0.22-0.46 ug/g Wet wt	0.34 ug/g Wet wt	Adult domestic birds sacrificed 10/79 and 11/79. New York, Westchester County and Long Island GC-EC
2933 Muscle	1	Not applicable	0.39 ug/g Wet wt	Adult domestic bird sacrificed 10/79. Breast muscle New York, Westchester County GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:375-381

Eagle, bald
HALIAEETUS LEUCOCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2934 Eggs	138	a) 0.58-4.8 ppm b) 1.4-5.6 ppm c) 2.4-2.6 ppm d) 1.2-8.5 ppm e) 0.52-44.0 ppm f) 1.6-86.0 ppm g) 7.0-87.0 ppm h) 8.2-9.0 ppm i) 5.4-75.0 ppm j) 26.0-52.0 ppm k) 5.7-64.0 ppm l) 28.0-218.0 ppm m) Not applicable n) 5.7-28.0 ppm Fresh wet wt	a) 2.18 ppm b) 3.5 ppm c) 2.5 ppm d) 3.8 ppm e) 8.5 ppm f) 16.20 ppm g) 25.75 ppm h) 6.53 ppm i) 27.84 ppm j) 27.44 ppm k) 27.05 ppm l) 55.09 ppm m) 7.4 ppm n) 13.75 ppm Fresh wet wt	a) AK, 1975-76, 5 eggs b) OR, 1979, 2 eggs c) CA, 1977, 2 eggs d) AZ, 1977, 3 eggs e) MN, 1972, 1976-79, 16 eggs f) WI, 1976-79, 87 eggs g) MI, 1969, 1974, 1978, 4 eggs h) NY, 1971, 1977, 1978, 3 eggs i) ME, 1976-79, 10 eggs j) DE, 1977-78, 3 eggs k) MD, 1978, 1977-79, 11 eggs l) VA, 1976-77, 1979, 11 eggs m) LA, 1979, 1 egg n) FL, 1975-77, 1979, 6 eggs In all eggs but one. 218 ppm in VA (Mason Neck) highest ever for this species. TLC; Silica gel chromatography; GC-MS

EGGS; EAGLES; BIRDS; ENVIRONMENTAL EXPOSURE; ALASKA; ARIZONA; CALIFORNIA; DELAWARE; FLORIDA; LOUISIANA; MAINE; MARYLAND; MICHIGAN; MINNESOTA; NEW YORK; OHIO; OREGON; VIRGINIA; WISCONSIN; UNITED STATES; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; POPULATION EXPOSURE

Wiemeyer, S.N.; Lamont, T.G.; Bunck, C.M.; Sindelar, C.R.; Gramlich, F.J.; Fraser, J.D.; Byrd, M.A. 1984 Archives of Environmental Contamination and Toxicology 13:529-549

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Eagle, booted
HIERAETUS PENNATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2036 Eggs	a) 1 b) 3 Ingestion	a) Not given b) Not given	a) 0.046 ppm b) 0.254 ppm Wet wt	a) Collected 1981 b) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Eagle, imperial
AQUILA HELIACA

Tissue	Cases Exposure Route	Range	Mean	General Information
2036 Eggs	a) 6 b) 5 c) 5 d) 10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.786 ppm b) 2.747 ppm c) 2.455 ppm d) 2.020 ppm Wet wt	a) Collected 1980 b) 1981 c) 1982 d) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Eel

Tissue	Cases Exposure Route	Range	Mean	General Information
2037 Muscle	3	Not given	1.6 ppm wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagnoe, C.; Cappellini, L.; Pancili, R. 1983 Chemosphere 12(3):291-296				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Eel, American
ANGUILLA ROSTRATA

Tissue	Cases Exposure Route	Range	Mean	General Information
2038 Body	82	11-730 mg/l Wet wt	131 mg/l Median, 24 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Eider
SOMATERIA MOLLISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2039 Adipose	8 Ingestion	Not given	3.1+/-1.3 ug/g Wet wt	Shot waterfowl. Diet of benthonic molluscs, above normal nutritional conditions. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:145-152				

Falcon, peregrine
FALCO PEREGRINUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2040 Eggs	20	a) 105-630 ppm b) 170-580 ppm c) 40-520 ppm Lipid wt	a) 251 ppm b) 365 ppm c) 200 ppm Lipid wt	a) 6 collected in 1978, analyzed by CA Dept of Fish and Game b) Same 6 analyzed by Bodega Marine Lab (BML) c) 14 collected 1979, 1980, Ontario Research Foundation No significant difference in results from different laboratories or between levels by whole egg versus shell membrane analyses. California; Canada GC-EC
2041 Shell membrane	a) 6 b) 14	a) 180-450 ppm b) 50-390 ppm Lipid wt	a) 277 ppm b) 185 ppm Lipid wt	a) Collected 1978, analyzed by Canadian Wildlife Service (CWS) b) 1979, 1980, CWS Results not significantly different than those from whole egg analysis. California; Canada GC-EC
EGGS; TERRESTRIAL; BIRDS; FALCONS; ENVIRONMENTAL EXPOSURE: CALIFORNIA; CANADA; COMPARATIVE EVALUATIONS; MEASUREMENT METHODS; CHLORINE ORGANIC COMPOUNDS; DDE; INDUSTRIAL CHEMICALS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; POPULATION EXPOSURE Peakall, D.B.; Lew, T.S.; Springer, A.M.; Walker, W.; Risebrough, R.W.; Monk, J.G., Jarman, W.M.; Walton, B.J.; Reynolds, L.M.; Fyfe, R.W.; Kiff, L.F. 1983 Archives of Environmental Contamination and Toxicology 12:523-526				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Ferret, European
MUSTELA PUTORIUS FURO

Tissue	Cases Exposure Route	Range	Mean	General Information
2042 Blood	a) 10 b) 4 Ingestion	a) Not given b) Not given	a) 3155 dpm/ml b) 415 dpm/ml	a) 24 hr b) 168 hr At time indicated after 4.83 uCi in 7.5 g feed. 24 hr data include both pregnant and nonpregnant cases, 168 hr data nonpregnant controls. Scintillation counting
2043 Body	a) 4 b) 4 c) 8 d) 4 Placental Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.010% b) 0.037% c) 0.156% d) 0.262%	a) At birth, mother exposed in 1st trimester b) At birth, mother exposed in 3rd trimester c) 1 wk old, mother exposed in 1st trimester d) 1 wk old, mother exposed in 3rd trimester Birth dose assumed to be from placental transfer and 1 wk dose from milk. Fetus and newborn considered at risk. Scintillation counting
2044 Urine	14 Ingestion	0-2.2%	Not applicable	0-35 d, % dose recovered after 4.83 uCi in 7.5 g feed. 1.5% was recovered by d 3. Fecal excretion was 30% by d 35. Estimated from graph. Range of means. Scintillation counting

BLOOD; BODY; URINE; DELIBERATE EXPOSURE; FERRETS; ADULTS; JUVENILES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; DIETS; PREGNANCY; RADIONUCLIDES; TRANSPLACENTAL TRANSFER; LACTATION; TERRESTRIAL
Bleavins, M.R.; Breslin, W.J.; Aulerich, R.J.; Ringer, R.K. 1984 Environmental Toxicology and Chemistry 3:637-644

Flounder, fourspot
PARALICHTHYS OBLONGUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2045 Body	1	Not applicable	0.8 mg/l Wet wt	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Flounder, summer
PARALICHTHYS DENTATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2046 Body	10	0.3-22.0 mg/l Wet wt	9.3 mg/l Median, 7.4 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Flounder, windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2967 Liver	a) 18 b) 18 c) 10 d) 9 e) 18 f) 18 g) 18 h) 10 i) 9 j) 18 k) 10 l) 8 m) 14	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given	a) 1.2+/-0.309 ppm b) 1.0+/-1.230 ppm c) 1.6+/-1.830 ppm d) 1.8+/-1.380 ppm e) 1.2+/-0.777 ppm f) 1.5+/-0.455 ppm g) 1.7+/-0.383 ppm h) 1.1+/-0.734 ppm i) 0.6 ppm j) 1.5+/-0.818 ppm k) 2.0+/-1.870 ppm l) 2.8+/-1.740 ppm m) 0.88+/-0.484 ppm Wet wt	a) 5/80 b) 9/80 c) 11/80 d) 7/81 e) 5/80 f) 7/80 g) 9/80 h) 11/80 i) 5/80 j) 7/80 k) 11/80 l) 7/81 m) 7/83 Hempstead Harbor, NY a)-d), Milford, CT g)-j), Roanoke Point, NY k)-m). Length 18-35 cm. Long Island Sound AAS
LIVER; COPPER; CADMIUM; CONNECTICUT; NEW YORK; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Greig, R.A.; Schurman, S.; Pereira, J.; Naples, P. 1983 Bulletin of Environmental Contamination and Toxicology 31:257-262				

Flounder, winter
PSEUDOPLEURONECTES AMERICANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2968 Body	44	0-22 mg/l Wet wt	6.4 mg/l Median, 6.8 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Fulmar
FULMARUS GLACIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2949 Adipose	7 Ingestion	Not given	59+/-22 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen GC-EC
2950 Liver	10 Ingestion	Not given	1.6+/-0.4 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen GC-EC

LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS
Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152

Gadwall
ANAS STREPERA

Tissue	Cases Exposure Route	Range	Mean	General Information
2951 Adipose	1	Not applicable	3.6 ug/g Wet wt	Juvenile shot 10/79. Subcutaneous fat. Level highest of 3 tissues analysed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
2952 Brain	1	Not applicable	0.12 ug/g Wet wt	Juvenile shot 10/79 New York, Hudson River GC-EC
2953 Muscle	1	Not applicable	0.20 ug/g Wet wt	Juvenile shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Postel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Gannet, cape
SULA CAPENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2954 Eggs	4	0.02-0.09 ug/g	0.05 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Gar, spotted
LEPISOSTEUS OCULATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2955 Body	a) 1 b) 5	a) Not given b) 0.20-0.46 ppm Wet wt	a) 0.50 ppm b) 0.28 ppm Wet wt	a) Lake Providence, 11.1% lipids b) Lake Bruin, 2.7% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are fish. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH
Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Goatfish, gold band
UPENEUS MOLLUCENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2956 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2967 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 20 ppb b) 9 ppb c) 6 ppb d) 4 ppb Wet wt	a) Hiroshima b) Aichi c) Fukuoka d) Tottori Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Goldeneye
BUCEPHALA CLANGULA

Tissue	Cases Exposure Route	Range	Mean	General Information
2958 Adipose	1	Not applicable	1.3 ug/g Wet wt	Juvenile collected 12/79. Subcutaneous fat. Mean highest of 8 tissues analyzed. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara River GC-EC
2959 Brain	1	Not applicable	0.88 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC
2960 Liver	1	Not applicable	0.41 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
2961 Adipose	a) 135 b) 16 c) 29 Ingestion	a) 0.051-24.0 mg/kg b) Not detected-3.01 mg/kg c) 0.59-8.49 mg/kg Wet wt	a) 6.29 mg/kg b) 0.031 mg/kg c) 2.87 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. a) Considered moderately high. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Goose, Canada
BRANTA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2962 Liver	2	0.28-0.43 ug/g Wet wt	0.36 ug/g Wet wt	Adults collected 6/77 (diazinon poisoning) and 3/79 (trauma). New York, Hudson River region GC-EC
2963 Muscle	2	0.40-0.50 ug/g Wet wt	0.45 ug/g Wet wt	Adults collected 6/77 (diazinon poisoning) and 3/79 (trauma). Breast muscle New York, Hudson River region GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Postel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Grackle
QUISCALUS QUISCULA

Tissue	Cases Exposure Route	Range	Mean	General Information
2964 Body	a) 15 b) 12 c) 24 Ingestion	a) 22,600-98,600 ppm b) 6,690-22,500 ppm c) 1,300-160 ppm	a) Not applicable b) Not applicable c) Not applicable	a) 2-8 d, died b) 2-8 d, sacrificed c) 0-224 d following 8 d exposure 1500 ppm, dietary dose. Lipid basis, a), b). Wet wt basis, c). Mortality and rate of elimination both associated with lipid levels. Estimated from graph. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC
2965 Brain	a) 15 b) 12 c) 24 Ingestion	a) 340-760 ppm b) 55-226 ppm c) 156-35 ppm Wet wt	a) 579+/-117.7 ppm b) 156+/-49.1 ppm c) Not applicable Wet wt	a) Died d 8 on dose of 1500 ppm Araclor 1254. 50% mortality point b) Survivors sacrificed at 50% mortality point c) Dietary PCBs (1500 ppm) for 8 d, then normal diet for 224 d. Gradual loss of residues, range of means Lethal brain level considered 310 ppm. Estimated from graph. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC

BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL
Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13

Grebe, eared
PODICEPS CASPICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2966 Adipose	1	Not applicable	0.05 ug/g Wet wt	Juvenile collected 12/79. Subcutaneous fat. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara River GC-EC
2967 Brain	1	Not applicable	2.2 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC
2968 Liver	1	Not applicable	1.3 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Grebe, eared
PODICEPS CASPICUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2969 Muscle	1	Not applicable	0.45 ug/g Wet wt	Juvenile collected 12/79. Breast muscle New York, Niagara River C-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Guillemot, Brunnich's
URIA LOMVIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2970 Liver	9 Ingestion	Not given	0.4+/-0.2 ug/g Wet wt	Shot waterfowl. Diet of fish, pelagic crustaceans. Lean nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen Disease found in one specimen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Gull
LARUS RIDIBUNDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2971 Adipose				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
2972 Liver				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
i336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Gull, glaucous
LARUS HYPERBOREUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2973 Adipose	6 Ingestion	Not given	82+/-84 ug/g Wet wt	Shot waterfowl. Omnivorous scavengers, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard; Spitbergen GC-EC
2974 Liver	11 Ingestion	Not given	6.1+/-6.7 ug/g Wet wt	Shot waterfowl. Omnivorous scavengers, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard; Spitbergen GC-EC

LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS
Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152

Gull, grey-headed
LARUS CIRROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2975 Eggs	4	0.36-1.06 ug/g	0.59 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Gull, herring
LARUS ARGENTATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2976 Eggs				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Gull, kelp
LARUS DOMINICANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2977 Eggs	15	0.03-1.56 ug/g	0.85 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2978 Body	1	Not applicable	47 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analysed. Not detected <1.0 ppb. Japan, Shikoku GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Hake, red
UROPHYCIS CHUSS

Tissue	Cases Exposure Route	Range	Mean	General Information
2979 Body	1	Not given	<0.1 mg/l Wet wt	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Hake, silver
MERLUCCIUS BILINEARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2980 Body	2	0.7-6.4 mg/l Wet wt	3.5 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Heron, black-crowned night
NYCTICORAX NYCTICORAX

Tissue	Cases Exposure Route	Range	Mean	General Information
2981 Eggs	147	0.37-46 ppm	3.9 ppm Geometric mean	Collected between May 17 and June 1, 1979. Possible sources: nesting and feeding habitats, or migration routes and wintering grounds in Mexico. Shell thicknesses inversely correlated with levels in eggs. Colorado; Wyoming GC; EC
EGGS; BIRDS; ENVIRONMENTAL EXPOSURE; COLORADO; WYOMING; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; OXYCHLORDANE; NONACHLOR; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE; POLYCHLORINATED BIPHENYLS; ANIMAL POPULATIONS; BIOLOGICAL MONITORING; PESTICIDE RESIDUES; LAND POLLUTION; WATER POLLUTION; AQUATIC McEwen, L.C.; Stafford, C.J.; Heasler, G.L. 1984 Environmental Toxicology and Chemistry 3:367-376				

Heron, green-backed
BUTORIDES STRIATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2982 Adipose	4 Ingestion	Not given	5.95 ppm Wet wt	Composite from birds shot in 1980. Residues linked to fish diet. Louisiana, Lake Providence GC; GC/MS
2983 Body	a) 12 b) 14 Ingestion	a) 0.24-4.79 ppm b) Not detected-1.97 ppm Wet wt	a) 0.72 ppm b) 0.43 ppm Wet wt Geometric means	a) Adults, mean lipid 16.2% b) Immature, mean lipid 14.8%, 13 had detectable levels Collected (shot) in 1980. Beak, feet, wing tips, skin, GI tract removed before homogenization. Residues linked to fish diet. Louisiana, Lake Province, Lake Bruin, Lake St. John GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 33:491-496				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Heron, green-backed
BUTORIDES STRIATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2984 Body	a) 10 b) 9 c) 6	a) 0.56-4.70 ppm b) Not detected-1.48 ppm c) 0.24-0.66 ppm Wet wt	a) 0.82 ppm b) 0.43 ppm c) 0.40 ppm Wet wt	a) Lake Providence, 11.4% lipids b) Lake Bruin, 12.9% lipids c) Lake St. John, 26.7% lipids Collected between 6/15-9/25/80. Tertiary consumers, major foods are fish. Lakes acting as sumps. Immature birds are good monitors of contamination. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Tissue	Cases Exposure Route	Range	Mean	General Information
2985 Liver	4 Ingestion	Not given	0.21 ppm Wet wt	Composite from birds shot in 1980. Residues linked to fish diet. Louisiana, Lake Providence GC; GC/MS
2986 Muscle	4 Ingestion	Not given	0.12 ppm Wet wt	Composite from birds shot in 1980. Residues linked to fish diet. Louisiana, Lake Providence GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 38:491-498				

Heron, little blue
EGRETTA CAERULEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2987 Body	a) 6 b) 15 Ingestion	a) Not detectable-2.22 ppm b) Not detected-0.62 ppm Wet wt	a) 0.50 ppm b) 0.17 ppm Wet wt Geometric means	a) Adults, 5 had detectable levels, mean lipid 10.8% b) Immature, 10 had detectable levels, mean lipid 8.2% Collected (shot) 1980. Beak, feet, skin, wing tips and GI tracts removed before homogenization. Moderate residues linked to mixed diet of fish, crustaceans and insects. Louisana, Lake Providence, Lake Bruin, Lake St. John GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 38:491-498				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Heron, little blue
EGRETTA CAERULEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2006 Body	a) 4 b) 5 c) 6	a) Not detected-0.36 ppm b) Not detected-2.32 ppm c) 0.27-0.79 ppm Wet wt	a) 0.14 ppm b) 0.10 ppm c) 0.46 ppm Wet wt	a) Lake Providence, 3.7% lipids b) Lake Bruin, 6.0% lipids c) Lake St. John, 18.2% lipids Collected 6/15-9/25/80. Tertiary consumer, major foods are small fish and invertebrates. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH
Niethammer, K.R.; White, D.H.; Bachett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Heron, yellow-crowned night
NYCTICORAX VIOLACEUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2000 Body	a) 4 b) 18 Ingestion	a) Not detected-1.07 ppm b) Not detected-0.55 ppm Wet wt	a) 0.27 ppm b) 0.09 ppm Wet wt Geometric means	a) Adult, 2 had detectable levels, mean lipid 18.7% b) Immature, 5 had detectable levels, mean lipid 6.6% Collected (shot) 1980. Beak, feet, wing tips, skin, and GI tract removed before homogenization. Low residues linked to crayfish diet. Louisana, Lake Providence, Lake Bruin, Lake St. John GC; GC/MS

CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS
Niethammer, K.R.; Bachett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 33:491-498

Tissue	Cases Exposure Route	Range	Mean	General Information
2006 Body	a) 5 b) 3	a) Not detected-1.07 ppm b) 0.17-0.37 ppm Wet wt	a) 0.11 ppm b) 0.26 ppm Wet wt	a) Lake Providence, 11.4% lipids b) Lake St. John, 17.4% lipids Collected 6/15-9/25/80. Secondary consumer. Lakes acting as sumps. Louisana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH
Niethammer, K.R.; White, D.H.; Bachett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Herring
CLUPEA HARENGUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2001 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Hobby
FALCO SUBBUTEO

Tissue	Cases Exposure Route	Range	Mean	General Information
2002 Eggs	a) 3 b) 4 Ingestion	a) Not given b) Not given	a) 3.262 ppm b) 1.380 ppm Wet wt	a) Collected 1982 b) 1983. Spain GLC

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL
Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
2003 Eggs	a) 2 b) 5 c) 4 Ingestion	a) Not given b) Not given c) Not given	a) 0.706 ppm b) 0.615 ppm c) 0.806 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain GLC

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL
Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2004 Eggs	a) 4 b) 4 c) 2 Ingestion	a) Not given b) Not given c) Not given	a) 2.007 ppm b) 2.151 ppm c) 3.714 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Limpet
PATELLA CAERULEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2005 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:120-151				

Lobster, Atlantic
HOMARUS AMERICANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2006 Body	a) 168 b) 66	a) 0.1-84.0 ppm b) 0.7-8.8 ppm	a) 8.7 ppm Median: 4.9 ppm b) 4.4 ppm Median: 4.1 ppm	a) Between 1976-1980, b) April-December 1982 Edible tissues Massachusetts, Buzzards Bay and Acushnet River
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Loon, common
GAVIA IMMER

Tissue	Cases Exposure Route	Range	Mean	General Information
2997 Adipose	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10 g) 11	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 29.3 ug/g b) 103 ug/g c) 126 ug/g d) 855 ug/g e) 1224 ug/g f) 1570 ug/g g) 265+/-100 ug/g Wet wt	a) Healthy juveniles, 74% fat b) Healthy adult males, 66% fat c) Healthy adult females, 73% fat d) Emaciated juveniles, 67% fat e) Emaciated adult males, 54% fat f) Emaciated adult females, 56% fat g) Healthy, collected in 1978-79, 62.0+/-13.1% fat a-f) Collected in 1971-1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2998 Blood	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.04+/-0.07 mg/kg b) 0.24+/-0.59 mg/kg c) 2.33+/-2.30 mg/kg Wet wt	a) 0.3+/-0.2% fat in healthy juveniles b) 0.8+/-1.7% fat in healthy adults c) 0.4+/-0.6% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2999 Brain	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10 g) 11 h) 35 i) 1	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 0.61 ug/g b) 1.77 ug/g c) 1.98 ug/g d) 45.5 ug/g e) 58.5 ug/g f) 62.9 ug/g g) 6.2+/-2.6 ug/g h) 1.2+/-1.4 ug/g i) 39 ug/g Wet wt	a) Healthy juveniles, 6.8% fat b) Healthy adult males, 6.9% fat c) Healthy adult females, 6.9% fat d) Emaciated juveniles, 7.2% fat e) Emaciated adult males, 7.1% fat f) Emaciated adult females, 6.2% fat g) Unknown condition, 7.76+/-1.12% fat h) Healthy, 6.16+/-0.50% fat i) Emaciated, 7.13% fat a-f) Collected in 1971-74, g) in 1969 h-i) in 1978-79. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3000 Embryos	a) 34 b) 15 c) 12 d) 19	a) Not given b) Not given c) Not given d) Not given	a) 28+/-45 ug/g b) 65+/-59 ug/g c) 10.5+/-5.3 ug/g d) 6.1+/-3.5 ug/g Wet wt	a, Collected in 1970 from Algonquin b) In 1972 from Algonquin-Parry Sound c) In 1978 from Algonquin-Parry Sound d) In 1979-80 same as c) Showed decline in organochlorine contaminants. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Loon, common
GAVIA IMMER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3001 Feathers	103	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.56 mg/kg b) 0.34 mg/kg c) 3.75 mg/kg d) 1.80 mg/kg e) 6.76 mg/kg f) 4.33 mg/kg g) 13.4 mg/kg h) 4.55 mg/kg Wet wt	a) From back of healthy juveniles, 4.3% fat b) From belly of healthy juveniles, 2.9% fat c) From back of healthy adults, 2.2% fat d) From belly of healthy adults, 1.5% fat e) From back of emaciated juveniles, 3.3% fat f) From belly of emaciated juveniles, 0.3% fat g) From back of emaciated adults, 0.5% fat h) From belly of emaciated adults, 0.3 % fat Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3002 Gizzard	a) 3 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.83+/-0.93 mg/kg b) 3.94+/-5.25 mg/kg c) 10.6+/-7.00 mg/kg Wet wt	a) 2.0+/-2.6% fat in healthy juveniles b) 2.8+/-3.0% fat in healthy adults c) 1.1+/-1.6% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3003 Heart	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 1.08+/-2.36 mg/kg b) 0.72+/-0.97 mg/kg c) 37.3+/-21.7 mg/kg Wet wt	a) 5.3+/-2.4% fat in healthy juveniles b) 4.4+/-2.7% fat in healthy adults c) 1.1+/-1.3% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3004 Intestine	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 2.12+/-2.26 mg/kg b) 7.40+/-9.85 mg/kg c) 35.4+/-32.4 mg/kg Wet wt	a) 6.4+/-8.2% fat in healthy juveniles b) 4.9+/-3.9% fat in healthy adults c) 2.9+/-3.8% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3005 Kidney	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.20+/-0.25 mg/kg b) 1.97+/-2.06 mg/kg c) 56.7+/-43.7 mg/kg Wet wt	a) 3.1+/-1.6% fat in healthy juveniles b) 1.6+/-1.5% fat in healthy adults c) 1.2+/-0.5% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3006 Liver	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.75 ug/g b) 4.20 ug/g c) 5.52 ug/g d) 68.9 ug/g e) 87.1 ug/g f) 51.6 ug/g Wet wt	a) Healthy juveniles, 2.6% fat b) Healthy adult males, 3.5% fat c) Healthy adult females, 3.8% fat d) Emaciated juveniles, 2.0% fat e) Emaciated adult males, 3.3% fat f) Emaciated adult females, 1.7% fat Adults with higher levels than juveniles. Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Loon, common
GAVIA IMMER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3007 Lung	a) 8 b) 18 c) 10	a) Not given b) Not given c) Not given	a) 0.14+/-0.16 mg/kg b) 2.68+/-5.53 mg/kg c) 13.1+/-11.8 mg/kg Wet wt	a) 2.0+/-1.0% fat in healthy juveniles b) 1.2+/-0.7% fat in healthy adults c) 0.4+/-0.1% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3008 Muscle	a) 21 b) 40 c) 58 d) 6 e) 13 f) 10 g) 21	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 1.78 ug/g b) 4.47 ug/g c) 4.39 ug/g d) 10.1 ug/g e) 25.4 ug/g f) 19.8 ug/g g) 3.2+/-4.0 ug/g Wet wt	a) Healthy juveniles, 5.4% fat b) Healthy adult males, 4.4% fat c) Healthy adult females, 4.4% fat d) Emaciated juveniles, 0.5% fat e) Emaciated adult males, 1.2% fat f) Emaciated adult females, 0.3% fat g) Healthy, collected in 1978-79, 2.59+/-1.16% fat a-f) Collected in 1971-1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3009 Uropygial gland	a) 15 b) 72 c) 8 d) 18	a) Not given b) Not given c) Not given d) Not given	a) 8.76 mg/kg b) 45.3 ug/kg c) 255 mg/kg d) 394 mg/kg Wet wt	a) Healthy juveniles, 34% fat b) Healthy adults, 36% fat c) Emaciated juveniles, 25% fat d) Emaciated adults, 27% fat Residues could be lost through this gland. Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3010 Uropygial oil	a) 15 b) 72 c) 8 d) 18	a) Not given b) Not given c) Not given d) Not given	a) 29.9 mg/kg b) 104 mg/kg c) 275 mg/kg d) 549 mg/kg Wet wt	a) Healthy juveniles, 42% fat b) Healthy adults, 51% fat c) Emaciated juveniles, 65% fat d) Emaciated adults, 33% fat Residues could be lost through this substance. Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

EGGS; BRAIN; ADIPOSE TISSUE; LIVER; MUSCLES; FEATHERS; INTESTINES; EMBRYOS; DDT; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; MERCURY; CHLORINE ORGANIC COMPOUNDS; PESTICIDES; PESTICIDE RESIDUES; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; LUNGS; GIZZARD; BLOOD; HEART; KIDNEYS

Frank, R.; Lumeden, H.; Barr, J.F.; Braun, H.E. 1988 Archives of Environmental Contamination and Toxicology 12:641-654

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derive-(9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Mackerel
PNEUMATOPHORUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3011 Body	1	Not applicable	29 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analysed. Not detected <1.0 ppb. Japan, Shizuoka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mackerel, horse
TRACHURUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3012 Body	1	Not applicable	17 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analysed. Not detected <1.0 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Merganser, American
MERGUS MERGANSER

Tissue	Cases Exposure Route	Range	Mean	General Information
3013 Adipose	4	1.7-9.8 ug/g Wet wt	5.6 ug/g Wet wt	Adults collected 12/79. Subcutaneous fat. Mean level lower than in breast muscle (7.79 ug/g), but exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. Levels higher in mergansers (3 sp.) than in 15 other species but no significant difference due to age, sex or collection site. New York, Niagara River GC-EC
3014 Brain	6	0.30-2.50 ug/g Wet wt	1.25 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Merganser, American
MERGUS MERGANSER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3015 Liver	5	0.77-2.90 ug/g Wet wt	1.73 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC
3016 Muscle	6	0.61-20.0 ug/g Wet wt	7.79 ug/g Wet wt	Adults collected 12/79. Breast muscle. Mean level higher than in subcutaneous fat (5.6 ug/g), brain and liver. NY and NJ hunters warned about consuming contaminated waterfowl. Levels significantly higher than in mallard and black ducks. New York, Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL, AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Merganser, hooded
LOPHODYTES CACULLATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3017 Adipose	1	Not applicable	3.9 ug/g Wet wt	Adult collected 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. Levels higher in mergansers (3 sp.) than in 18 other species but no significant difference due to age, sex or collection site. New York, Niagara River GC-EC
3018 Liver	1	Not applicable	1.3 ug/g Wet wt	Adult collected 12/79 New York, Niagara River GC-EC
3019 Muscle	1	Not applicable	1.6 ug/g Wet wt	Adult collected 12/79. Breast muscle. Levels significantly higher than in mallard and black ducks. New York, Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Merganser, red-breasted
MERGUS SERRATOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3020 Adipose	2	1.3-36.0 ug/g Wet wt	13.6 ug/g Wet wt	Adults collected 12/79. Subcutaneous fat. Mean highest of 6 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. Levels higher in mergansers (3 sp.) than in 15 other species but no significant difference due to age, sex or collection site. New York, Niagara River GC-EC
3021 Brain	2	0.11-0.43 ug/g Wet wt	0.27 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:375-381

Tissue	Cases Exposure Route	Range	Mean	General Information
3022 Eggs	a) 40 b) 40	a) Not applicable b) Not applicable	a) 17.58 ppm b) 10.20 ppm Wet wt Geometric means	a) Randomly selected b) Unhatched Collected 1977, pairs from same nests analyzed. No significant difference. Lower limit 0.50 ppm. Lake Michigan, northwestern islands GLC

EGGS; AQUATIC; BIRDS; WATERFOWL; ENVIRONMENTAL EXPOSURE; GREAT LAKES; BROMINATED HYDROCARBONS; CHLORINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; NONACHLOR; OXYCHLORDANE; PESTICIDES; POLYBROMINATED BIPHENYLS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION
Haseltine, S.D.; Heinz, G.H.; Hensler, G.L.; Reichel, W.L. 1983 Environmental Pollution 32:211-232

Tissue	Cases Exposure Route	Range	Mean	General Information
3023 Liver	3	0.74-1.70 ug/g Wet wt	1.07 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Merganser, red-breasted
MERGUS SERRATOR

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3024 Muscle	2	0.71-0.74 ug/g Wet wt	0.725 ug/g Wet wt	Adults collected 12/79. Breast muscle. Levels significantly higher than in mallard and black ducks. New York, Niagara River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3025 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 66 ppb b) 74 ppb c) 95 ppb d) 85 ppb Wet wt	a) Osaka b) Tottori c) Ehime d) Kagawa Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Tissue	Cases Exposure Route	Range	Mean	General Information
3026 Muscle	4	Not given	0.3 ppm Wet wt	Collected 2/80. 72% octachlorobiphenyl Italy, Sicily, Augusta Bay GC-MS

CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES

Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Panelli, R. 1983 Chemosphere 12(3):291-298

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Mullet, golden gray
MUGIL AURATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3027 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Mullet, red
MULLUS SURMULETUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3028 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Mullet, striped
MULLUS BARBATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3029 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Murex

Tissue	Cases Exposure Route	Range	Mean	General Information
3030 Body	15	Not given	0.81 ppm Wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Puccilli, R. 1983 Chemosphere 12(3):291-298				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Mussel
MYTILUS GALLOPROVINCIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3031 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Tissue	Cases Exposure Route	Range	Mean	General Information
3032 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 186 ppb b) 35 ppb c) 17 ppb d) 16 ppb Wet wt	a) Osaka b) Wakayama c) Ehime d) Oita Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-630

Mussel, blue
MYTILUS EDULIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3033 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Myctophid
DIAPHUS SUBORBITALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3084 Body	Ingestion	Not given	48 ug/kg	Seawater levels 0.04-0.59 ng/l (mean 0.28 ng/l). Bioconcentration factor 170. Pacific Ocean GC-EC
BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:781-788				

Nudibranch

Tissue	Cases Exposure Route	Range	Mean	General Information
3085 Body	5	Not given	0.4 ppm Wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Panelli, R. 1983 Chemosphere 12(3):291-298				

Oyster, American
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3086 Body	a) 213 b) 136 c) 96 d) 262 e) 370 Ingestion	a) Not detected-0.07 ug/g b) Not detected-0.07 ug/g c) Not detected-0.07 ug/g d) Trace-0.20 ug/g e) Not detected-0.40 ug/g Wet wt	a) 0.02 ug/g b) 0.02 ug/g c) 0.02 ug/g d) 0.02 ug/g e) 0.01 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. DDT metabolites (DDE, DDD) and chlordane decrease after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC
CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE Elceberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-686				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Oystercatcher, African black
HAEMATOPUS MOQUINI

Tissue	Cases Exposure Route	Range	Mean	General Information
3037 Eggs	5	0.24-1.20 ug/g	0.63 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS
BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201				

Penguin, jackass
SPHENISCUS DEMERSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3038 Eggs	20	0.06-0.54 ug/g	0.24 ug/g	21 eggs analyzed. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS
BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201				

Pike
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3039 Liver	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.22 +or- 0.23 mg/kg b) 0.27 +or- 0.23 mg/kg c) 0.50 +or- 0.24 mg/kg Wet wt	a) Southern lakes b) Northern lakes c) Baltic Sea Expressed as Clophen A 60 Collected at 75 sampling stations, 1-4/82 Length 41-72 cm, wt 480-6000 g, 0.51-1.36% fat Finland GC/MS; GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Pike
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3040 Muscle	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.040 +or- 0.023 mg/kg b) 0.042 +or- 0.027 mg/kg c) 0.046 +or- 0.022 mg/kg Wet wt	a) Southern lakes b) Northern lakes c) Baltic Sea Expressed as Clophen A 60. Collected at 75 sampling stations, 1-4/82. Length 41-72 cm, wt 480-6000 g, 0.51-1.36% fat Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3041 Adipose	a) 50 b) 26 c) 20 d) 7 Ingestion	a) Not detected-81.5 mg/kg b) Not detected-6.62 mg/kg c) Not detected-1.07 mg/kg d) Not detected-3.76 mg/kg Wet wt	a) 1.07 mg/kg b) 1.67 mg/kg c) 0.020 mg/kg d) 0.11 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Lake Wabamun, isolated watershed d) McGregor Lake Intestinal fat. d) Considered low. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Pilchard

Tissue	Cases Exposure Route	Range	Mean	General Information
3042 Muscle	5	Not given	3.96 ppm Wet wt	Collected 2/80. Major components: penta-, hexa-, hepta-, octachlorobiphenyls Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Panelli, R. 1983 Chemosphere 12(3):291-298				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Puffin
FRATERCULA ARCTICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3043 Brain	a) 10 b) 10 c) 10 Ingestion	a) 1295-8717 ng/g b) 485-3901 ng/g c) 65-576 ng/g Fat wt	a) 2902+/-7024 ng/g b) 1959+/-1072 ng/g c) 313+/-166 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82 b) Chicks collected at Hernyken, Rost, 7/82 c) Chicks collected at Hernyken, Rost, 7/82. Norway GC
3044 Eggs	20 Ingestion	5182-16,420 ng/g Fat wt	8300+/-2684 ng/g Fat wt	Collected at Hernyken, Rost, during 5/83. Norway GC
3045 Liver	Ingestion	a) 6667-47,201 ng/g b) 1890-123,088 ng/g c) 3187-28,382 ng/g d) 148-3655 ng/g e) 3137-16,364 ng/g f) 2406-28,281 ng/g g) 6667-47,202 ng/g h) 6013-46,471 ng/g Fat wt	a) 20,605+/-12,289 ng/g b) 57,575+/-39,533 ng/g c) 10,979+/-6613 ng/g d) 1241+/-984 ng/g e) 10,190+/-6491 ng/g f) 12,510+/-9156 ng/g g) 17,407+/-11,920 ng/g h) 23,938+/-11,920 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82, 10 cases b) Adults collected at Hornoy 7/82, 12 cases c) Rost, 7/82, chicks, 17 cases d) Rost, 7/83, chicks, 10 cases e) Rost, 1982, female chicks, 7 cases f) male chicks, 7 cases g) Rost, 1982, female adults, 8 cases h) Male adults, 11 cases. Norway GC
3046 Uropygial gland	19 Ingestion	a) 8611-41,182 ng/g b) 11,722-152,982 ng/g c) 8611-37,980 ng/g d) 26,147-41,182 ng/g Fat wt	a) 21,887+/-11,635 ng/g b) 60,511+/-50,467 ng/g c) 16,963+/-8351 ng/g d) 33,627+/-5572 ng/g Fat wt	a) Collected at Hernyken, Rost, 7/82, 8 cases b) Collected at Hornoy, 7/82, 11 cases c) Females, collected at Hernyken, Rost, in 7/82, 5 cases d) Males, 3 cases. Norway GC

LIVER; BRAIN; UROPYGIAL GLAND; EGGS; WATERFOWL; AQUATIC; ENVIRONMENTAL EXPOSURE; NORWAY; ADULTS; JUVENILES; ALDRIN; DDE; HEXACHLOROBENZENE; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; DIELDRIN; PESTICIDES; BIOACCUMULATION; FOOD CONTAMINATION; WATER POLLUTION; INDUSTRIAL POLLUTION; PESTICIDE RESIDUES
Ingebrigtsen, K.; Skaare, J.U.; Teigen, S.W. 1984 Journal of Toxicology and Environmental Health 14:813-828

Roach
RUTILUS RUTILUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3047 Muscle	11	Not given	0.12+/-0.057 mg/kg Wet wt	Expressed as Clophen A 60. Collected at 12 lake sampling stations, 2/82. Length 16-18 cm, wt 48.5-54.0 g, 1.31% fat. Finland GC/MS; GC-EC

LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES
Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):857-862

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Robin
TURDUS MIGRATORIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3048 Brain	2	<0.0001-6.74 ppm	1.48 ppm	None in 4 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
3049 Heart	1	<0.0001-1.15 ppm	0.288 ppm	None in 3 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC

ADIPOSE TISSUE; BRAIN; MUSCLES; LIVER; HEART; TERRESTRIAL; BIRDS; ENVIRONMENTAL EXPOSURE; ILLINOIS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FOOD CONTAMINATION; PESTICIDE RESIDUES
Edwards, W.R.; Dusan, R.E.; Siemers, R.J. 1968 Bulletin of Environmental Contamination and Toxicology 31:407-414

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3050 Body	a) 2 b) 1	a) 64-188 ppb wet wt b) Not applicable	a) 126 ppb b) 8 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Sanger
STIZOSTEDION CANADENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
3051 Adipose	Ingestion	a) 2.03-15.4 mg/kg b) 2.34-17.6 mg/kg c) 0.54-20.05 mg/kg Wet wt	a) 5.84 mg/kg b) 5.57 mg/kg c) 6.01 mg/kg Wet wt	a) Red Deer River, below city of Red Deer b) South Saskatchewan River c) Oldman River Intestinal fat. Lindane (gamma-BHC), detected in c), widely used pesticide. a) and c) Considered moderately high. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Galopete, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Saury, Pacific
COLOLABIS SAIRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3062 Body	1	Not applicable	10 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Iwate GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Scaup, greater
AYTHYA MARILA

Tissue	Cases Exposure Route	Range	Mean	General Information
3053 Adipose	4	2.1-15.0 ug/g Wet wt	7.1 ug/g Wet wt	3 adults, 1 juvenile collected 10/79 and 1/80. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara River and Long Island GC-EC
3054 Brain	4	0.02-1.90 ug/g Wet wt	0.88 ug/g Wet wt	3 adults, 1 juvenile collected 12/79 and 1/80. New York, Long Island and Niagara River GC-EC
3055 Liver	3	0.22-2.10 ug/g Wet wt	1.21 ug/g Wet wt	2 adults, 1 juvenile collected 12/79 New York, Long Island and Niagara River GC-EC
3056 Muscle	4	0.11-2.20 ug/g Wet wt	0.78 ug/g Wet wt	3 adults, 1 juvenile collected 12/79 and 1/80. Breast muscle. Substantially lower levels than in fat. New York, Long Island and Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriv (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERM.NED
Scorpionfish
SEBASTES INERMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2067 Body	1	Not applicable	7 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Aomori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Scoter, surf
MELANITTA PERSPICILLATA

Tissue	Cases Exposure Route	Range	Mean	General Information
2068 Adipose	1	Not applicable	14.0 ug/g Wet wt	Juvenile shot 10/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
2069 Liver	1	Not applicable	0.69 ug/g Wet wt	Juvenile shot 10/79 New York, Hudson River GC-EC
2070 Muscle	1	Not applicable	0.71 ug/g Wet wt	Juvenile shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Postel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:875-881				

Scoter, white-winged
MELANITTA DEGLANDI

Tissue	Cases Exposure Route	Range	Mean	General Information
2061 Adipose	2	5.4-11.0 ug/g Wet wt	8.2 ug/g Wet wt	Adults shot 10/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriv (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Scoter, white-winged
MELANITTA DEGLANDI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3062 Brain	1	Not applicable	0.26 ug/g Wet wt	Adult shot 10/79 New York, Hudson River GC-EC
3063 Liver	2	0.47-0.83 ug/g Wet wt	0.65 ug/g Wet wt	Adults shot 10/79 New York, Hudson River GC-EC
3064 Muscle	2	0.22-0.94 ug/g Wet wt	0.58 ug/g Wet wt	Adults shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Scup
STENOTOMUS CHRYSOPS

Tissue	Cases Exposure Route	Range	Mean	General Information
3065 Body	50	0-11.4 mg/l Wet wt	2.1 mg/l Median, 2.3 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Seal, harbour
PHOCA VITULINA

Tissue	Cases Exposure Route	Range	Mean	General Information
3066 Adipose	137	a) 5-2500 mg/kg b) Not given c) Not given	a) 80 mg/kg b) 66 mg/kg c) 90 mg/kg	a) Blubber lipid, seals found dead on coast, 1973-1981 b) Males of a), 58 cases c) Females of a), 79 cases Additional data given. Netherlands, coast GLC
ADIPOSE TISSUE; SEALS; AQUATIC; ENVIRONMENTAL EXPOSURE; NETHERLANDS; POLYCHLORINATED BIPHENYLS Van der Zande, T.; De Ruiter, E. 1983 Science of the Total Environment 27:133-147				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3067 Adipose	237 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.27+/-2.85 mg/kg b) 1.90+/-1.21 mg/kg c) 2.62+/-3.49 mg/kg d) 2.30+/-1.46 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Blubber greatest accumulator. Males accumulated with age. Levels from northern and southern sites similar, indicated single migratory stock. Adult males Gulf of St. Lawrence highest levels. Levels appeared to be decreasing, no clinical effects apparent. Highest overall means. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3068 Blood	146 Ingestion	a) Not given b) Not given	a) 0.01+/-0.01 mg/kg b) 0.01+/-0.02 mg/kg	a) Males b) Females 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3069 Brain	91 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.03+/-0.03 mg/kg b) 0.03+/-0.02 mg/g c) 0.38+/-0.28 mg/kg d) 0.38+/-0.30 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Lowest levels of bioaccumulation of tissues studied. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3070 Kidney	124 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.05+/-0.04 mg/kg b) 0.07+/-0.07 mg/kg c) 3.82+/-4.17 mg/kg d) 3.00+/-1.92 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3071 Liver	124 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.08+/-0.10 mg/kg b) 0.06+/-0.04 mg/kg c) 4.74+/-6.92 mg/kg d) 2.94+/-2.17 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3072 Muscle	123 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.09+/-0.21 mg/kg b) 0.04+/-0.04 mg/kg c) 4.74+/-5.57 mg/kg d) 4.35+/-3.91 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

SEALS; CHLORINE ORGANIC COMPOUNDS; ADIPOSE TISSUE; BLOOD; BRAIN; LIVER; KIDNEYS; MUSCLES; DDT; DIELDRIN; HEXACHLOROBENZENE; HEPTACHLOR EPOXIDE; ATLANTIC; ARCTIC; CANADA; BIOACCUMULATION; PESTICIDE RESIDUES; BIOLOGICAL MONITORING; AGE; GREENLAND; POLYCHLORINATED BIPHENYLS; SEX; METABOLITES; DDE; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 36:133-152

Seal, Weddell
LEPTONYCHOTES WEDDELLI

Tissue	Cases Exposure Route	Range	Mean	General Information
3073 Adipose	a) 1 b) 1 c) 1	a) 23.6-32.6 ng/g b) 37.0-38.4 ng/g c) 3.17-5.41 ng/g Fresh wt	a) Not applicable b) Not applicable c) Not applicable	a) Female, age 3 yr + 11 mo, fat 77-89% b) Male, age 13 or 14 yr, fat 90-92% c) Male, newborn, fat 24-34%, collected 10/27/81 a) -b) collected 10/9/81. Antarctica, Syowa Station GC/MS

ADIPOSE TISSUE; SEALS; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; ANTARCTICA; CHLORINE ORGANIC COMPOUNDS; NONACHLOR; OXYCHLORDANE; DDT; POLYCHLORINATED BIPHENYLS; PESTICIDES; AIR POLLUTION; ATMOSPHERE; PESTICIDE RESIDUES; ARCTIC

Kawano, M.; Inoue, T.; Hidaka, H.; Tatsukawa, R. 1984 Chemosphere 13(1):95-100

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Shad, threadfin
DOROSOMA PETENENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
3074 Body	4	Not detected-0.38 ppm Wet wt	0.13 ppm Wet wt	Lake Providence, 4.4% lipids. Collected 6/15-9/25/80. Primary consumer, major foods are green algae and protozoans. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:65-74				

Shiner, blacktail
NOTROPIS VENUSTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3075 Body	3	Not detected-0.37 ppm Wet wt	0.15 ppm Wet wt	Lake Providence, 4.8% lipids. Collected 6/15-9/25/80. Secondary consumers, major foods are small invertebrates. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:65-74				

Shrimp
PARAPENAEUS KERATHURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3076 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Shrimp, deep-water pink
PARAPENAEUS LONGIROSTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
5077 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Snake, water
NERODIA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3078 Body	a) 7 b) 6 c) 1	a) Not detected-1.35 ppm b) Not detected-1.62 ppm c) Not detected-0.40 ppm Wet wt	a) 0.24 ppm b) 0.30 ppm c) 0.07 ppm Wet wt	a) Lake Providence, 3.7% lipids b) Lake Bruin, 3.7% lipids c) Lake St. John, 6.6% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are fish and frogs. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Squid
TODARODES PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3079 Body	5 Ingestion	35-95 ug/kg	68 ug/kg	Seawater levels 0.04-0.50 ng/l (mean 0.28 ng/l). Bioconcentration factor 240. Pacific Ocean GC-EC
BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Squid
TODARODES PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3060 Body	1	Not applicable	6 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Sanin GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Starling
STURNUS VULGARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3081 Brain	a) 5 b) 5 Ingestion	a) 367-469 ppm b) 50-300 ppm Wet wt	a) 430+/-45 ppm b) 179+/-90 ppm Wet wt	a) Died within 4 d, 50% mortality point b) Survived, sacrificed at 50% mortality point 1500 ppm dietary dose. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC

BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL
Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13

Sucker, longnose
CATOSTOMUS CATOSTOMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3063 Adipose	a) 54 b) 24 Ingestion	a) 1.01-11.6 mg/kg b) Not detected-0.65 mg/kg Wet wt	a) 4.16 mg/kg b) 0.09 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Oldman River Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
3063 Adipose	a) 40 b) 20 c) 16 Ingestion	a) 0.69-10.76 mg/kg b) Not detected-4.99 mg/kg c) Not detected-0.63 mg/kg Wet wt	a) 3.68 mg/kg b) 0.64 mg/kg c) 0.07 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Beaver River. Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevalon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Tautog
TAUTOGA ONITIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3064 Body	17	0.1-11.0 mg/l Wet wt	1.7 mg/l Median, 0.9 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Teal, blue-winged
ANAS DISCORS

Tissue	Cases Exposure Route	Range	Mean	General Information
3065 Adipose	3	6.1-16.0 ug/g Wet wt	11.37 ug/g Wet wt	Juveniles shot 10/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. No significant difference in levels due to age, sex or collection site among 17 total species. NY and NJ hunters warned about consuming contaminated waterfowl. New York, Hudson River GC-EC
3066 Liver	3	0.28-1.3 ug/g Wet wt	0.76 ug/g Wet wt	Juveniles shot 10/79 New York, Hudson River GC-EC
3067 Muscle	3	0.32-1.2 ug/g Wet wt	0.76 ug/g Wet wt	Juveniles shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Teal, green-winged
ANAS CAROLINENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3088 Adipose	2	0.51-0.69 ug/g Wet wt	0.60 ug/g Wet wt	Juveniles shot 10/79. Subcutaneous fat. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
3089 Brain	2	0.05-0.98 ug/g Wet wt	0.52 ug/g Wet wt	Juveniles shot 10/79 New York, Hudson River GC-EC
3090 Muscle	2	0.22-0.29 ug/g Wet wt	0.26 ug/g Wet wt	1 adult, 1 juvenile shot 10/79. Breast muscle New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 19[illegible]4 Archives of Environmental Contamination and Toxicology 13:375-381

Tern, roseate
STERNA DOUGALLII

Tissue	Cases Exposure Route	Range	Mean	General Information
3091 Eggs	8	0.16-0.53 ug/g	0.34 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE

de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3092 Adipose	22 Ingestion	1.83-6.81 mg/kg Wet wt	3.17 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE

Chevalca, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Tuna, bluefin
THUNNUS THYNNUS THYNNUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3093 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Turtle, green
CHELONIA MYDAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3094 Liver	4	43-80 ppb	Not given	Natural mortalities, wt 4-12 kg, estimated ages 2-7 yr Florida, East coast GC-EC
3095 Muscle	4	5.4-9.4 ppb	Not given	Natural mortalities, wt 4-12 kg, estimated ages 2-7 yr Florida, East coast GC-EC
FLORIDA; MUSCLES; LIVER; DDE; POLYCHLORINATED BIPHENYLS; TURTLES; BIOACCUMULATION McKim, J.M., Jr.; Johnson, K.L. 1983 Bulletin of Environmental Contamination and Toxicology 31:53-60				

Turtle, loggerhead
CARETTA CARETTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3096 Liver	8	8-182 ppb	Not given	Natural mortalities, wt 18-61 kg, estimated ages 12-34 yr Florida, East coast GC-EC
3097 Muscle	9	5-46 ppb	Not given	Natural mortalities, wt 18-61 kg, estimated ages 12-34 yr Florida, East coast GC-EC
FLORIDA; MUSCLES; LIVER; DDE; POLYCHLORINATED BIPHENYLS; TURTLES; BIOACCUMULATION McKim, J.M., Jr.; Johnson, K.L. 1983 Bulletin of Environmental Contamination and Toxicology 31:53-60				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Vendace
COREGONUS ALBULA

Tissue	Cases Exposure Route	Range	Mean	General Information
3098 Muscle	26	Not given	0.079+/-0.047 mg/kg Wet wt	Expressed as Clophen A 60. Collected at 26 lake sampling stations, 2-9/82. Length 8-20.5 cm, wt 2.6-61 g, 0.75-1.61% fat. Finland GC/MS; GC-EC

LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES
Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842

Walleye
STIZOSTEDION VITREUM VITREUM

Tissue	Cases Exposure Route	Range	Mean	General Information
3099 Adipose	a) 65 b) 21 c) 17 d) 28 Ingestion	a) 1.39-45.60 mg/kg b) Not detected-4.60 mg/kg c) 2.94-16.79 mg/kg d) 2.41-7.16 mg/kg Wet wt	a) 14.15 mg/kg b) 1.02 mg/kg c) 7.00 mg/kg d) 5.01 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River c) Bow River below Calgary d) St Mary's River Intestinal fat. a) Considered high, c) and d) Moderately high. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-52

Whitefish, lake
COREGONUS CLUPEAFORMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3100 Adipose	a) 21 b) 10 c) 14 Ingestion	a) 1.16-5.45 mg/kg b) Not detected-0.94 mg/kg c) Not detected-0.75 mg/kg d) 0.51-1.86 mg/kg Wet wt	a) 2.76 mg/kg b) 0.006 mg/kg c) 0.18 mg/kg d) 1.17 mg/kg Wet wt	a) Red Deer River below city of Red Deer b) Lake Newell c) McGregor Lake Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-52

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Whitefish, mountain
PROSOPIUM WILLIAMSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
8101 Adipose	60 Ingestion	1.10-16.63 mg/kg Wet wt	6.32 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Considered moderately high. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8102 Body	30	3.1-14.3 mg/l Wet wt	8.6 mg/l Median, 8.5 mg/l	Edible tissues, 1976-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:32A-37A

Woodcock
PHILOHELO MINOR

Tissue	Cases Exposure Route	Range	Mean	General Information
8103 Adipose	1	<0.0001-12.5 ppm	2.06 ppm	None in 5 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
8104 Heart	1	<0.0001-0.0791 ppm	0.0058 ppm	None in 14 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
8105 Liver	1	<0.0001-0.247 ppm	0.0236 ppm	None in 10 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
8106 Muscle	2	<0.0001-4.46 ppm	0.290 ppm	None in 13 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC

ADIPOSE TISSUE; BRAIN; MUSCLES; LIVER; HEART; TERRESTRIAL; BIRDS; ENVIRONMENTAL EXPOSURE; ILLINOIS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FOOD CONTAMINATION; PESTICIDE RESIDUES
Edwards, W.R.; Dusan, R.E.; Siemers, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:407-414

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Zooplankton

Tissue	Cases Exposure Route	Range	Mean	General Information
8107 Body	Ingestion	Not given	1.6 ug/kg	Sample mainly copepods. Seawater levels 0.04-0.59 ng/l (mean 0.26 ng/l). Bioconcentration factor 6.4. Pacific Ocean GC-EC

BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE
Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738

PARALICHTHYS DENTATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2876 Body	10	0.2-22 mg/l Wet wt	9.3 mg/l Median, 7.4 mg/l	Edible tissues, 1978-1980 New Bedford, MA area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, 4-chloro- (8 Cl); 1,1'-Biphenyl, 4-chloro- (9 Cl)
2051-62-9
C12-H9-Cl
Killifish
ORYZIAS LATIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
8106 Body	a) 84 b) 84 Ingestion	a) 100,000-5,000 ppb b) 70,000-5,000 ppb	a) Not applicable b) Not applicable	a) 1-60 d, peak (100,000 ppb) on d 1. Initial exposure, 35.5 g in 4 L acetone sprayed on pond. 14 data points, 6 fish/point b) 1-20 d, peak (200,000 ppb) from 5-15 d, then rapid decrease. Constant exposure to 42.7+/-4.7 ppb for 15 d. 14 data points, 6 fish/point Ranges of means. Estimated from graph. Japan GC/MS

BODY; DELIBERATE EXPOSURE; JAPAN; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; HEXACHLOROBENZENE; PENTACHLOROPHENOL; WATER POLLUTION; INDUSTRIAL POLLUTION; BIOACCUMULATION; FISHES; ANIMAL POPULATIONS; PESTICIDE RESIDUES; AQUATIC
Sugiura, K.; Aoki, M.; Kaneko, S.; Daisaku, I.; Komatsu, Y.; Shibuya, H.; Suzuki, H.; Goto, M. 1984 Archives of Environmental Contamination and Toxicology 13:745-758

Biphenyl, 4,4'-dichloro- (8 Cl); 1,1'-Biphenyl, 4,4'-dichloro- (9 Cl)
2050-68-2
C12-H8-Cl2
MW 223.11, MP 148-149 C, BP 315-319 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3109 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 18.0+/-6.2 ng/g b) 29.0+/-5.1 ng/g c) 35.0+/-9.7 ng/g d) 47.0+/-10 ng/g e) 71.0+/-13 ng/g	a) Day 8 b) Day 21 c) Day 35 d) Day 58 e) Day 90 Days held in flow-through tanks to determine bioconcentration factor 5 chemicals tested at low levels in mixtures with minimal interactive effects Water level 19.0+/-2.3 ng/L. Canada, Ontario GC-EC

BODY; TROUT; AQUATIC; DELIBERATE EXPOSURE; ONTARIO; CANADA; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; BIOCONCENTRATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION

Oliver, B.G.; Niimi, A.J. 1984 Environmental Toxicology and Chemistry 3:271-277

Bromine
7726-95-6
Br
AtW 79.904, MP -7.25 C, BP 59.47 C, VP 1 mm Hg at -60 C, 10 mm Hg at -30 C

Cattle
BOS SP

Tissue	Cases Exposure Route	Range	Mean	General Information
3110 Hair	Ingestion	Not given	4.6 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium, rural farms NA

CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS

Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bass, black sea
CENTROPRISTIS STRIATA

Tissue	Cases Exposure Route	Range	Mean	General Information
3111 Blood	a) 3 b) 3 c) 3 d) 3 e) 3	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 350 ng/g b) 1550 ng/g c) 350 ng/g d) 1550 ng/g e) 1200 ng/g Dry wt	a) 24 hr after ingesting oysters containing 83 ug/g Cd b) 24 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 72 hr after Cd as in a) d) 72 hr after same level as b) e) 336 hr after same levels as b) Significantly higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting
3112 Brain	a) 3 b) 3 d) 3 Ingestion	a) Not given b) Not given c) Not given	a) 50 ng/g b) 540 ng/g c) 990 ng/g Dry wt	a) 72 hr after ingesting oysters containing 83 ug/g of Cd b) 72 hr after ingesting oysters with 50 ug/g Cd plus 12.7 ug/g naphthalene c) 336 hr after Cd and naphthalene, same levels Levels after 24 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd, alone. Estimated from graph. South Carolina Gamma counting
3113 Gall bladder	a) 3 b) 3 c) 3 d) 3 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 100 ng/g b) 550 ng/g c) 350 ng/g d) 23,000 ng/g Dry wt	a) 72 hr after ingesting oysters containing 83 ug/g Cd b) 72 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 336 hr after Cd, level as in a) d) 336 hr after Cd and naphthalene, levels as in b) Levels after 24 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd, alone. Estimated from graphs. South Carolina Gamma counting
3114 Gills	a) 3 b) 3 c) 3 d) 3	a) Not given b) Not given c) Not given d) Not given	a) 60 ng/g b) 350 ng/g c) 270 ng/g d) 1340 ng/g Dry wt	a) 24 hr after ingesting oysters containing 83 ug/g Cd b) 24 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 336 hr after Cd alone as in a) d) 336 hr after Cd-naphthalene as in b) Levels after 72 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graphs. South Carolina Gamma counting
3115 Heart	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 350 ng/g b) 390 ng/g c) 530 ng/g Dry wt	a) 24 and 72 hr after ingesting oysters containing 50 ug/g Cd plus 12.7 ug/g naphthalene b) 336 hr after 83 ug/g Cd, alone c) 336 hr after Cd-naphthalene as in a) Levels significantly higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bass, black sea
CENTROPRISTIS STRIATA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3116 Kidney		a) 290-900 ng/g b) 490-23,900 ng/g Dry wt	a) Not given b) Not given	a) 24-336 hr after ingesting oysters containing 83 ug/g Cd b) After 50 ug/g Cd plus 12.7 ug/g naphthalene Estimated from graph. Range of means. South Carolina Gamma counting
3117 Liver	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 450 ng/g b) 270 ng/g c) 1175 ng/g Dry wt	a) 24 hr after ingesting oysters containing 50 ug/g Cd alone c) 336 hr after Cd-naphthalene as in a) Levels after 72 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting
3118 Muscle	a) 3 b) 3 c) 3 d) 3	a) Not given b) Not given c) Not given d) Not given	a) 150 ng/g b) 650 ng/g c) 50 ng/g d) 470 ng/g Dry wt	a) 24 hr after ingesting oysters containing 83 ug/g Cd b) 24 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 72 hr after Cd as in a) d) 72 hr after Cd-naphthalene as in b) Levels after 336 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting
3119 Skin		a) 40-1080 ng/g b) 300-750 ng/g Dry wt	a) Not given b) Not given	a) 24-336 hr after ingesting oysters containing 83 ug/g Cd b) After 50 ug/g Cd plus 12.7 ug/g naphthalene Estimated from graph. Range of means. South Carolina Gamma counting

BRAIN; GALL BLADDER; KIDNEYS; SKIN; GILLS; HEART; LIVER; MUSCLES; BLOOD; BODY; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; SOUTH CAROLINA; CADMIUM; BIOACCUMULATION; OYSTERS; WATER POLLUTION
Fair, P.A.; Sick, L.V. 1983 Archives of Environmental Contamination and Toxicology 12:551-557

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 446 C

Bass, largemouth
MICROPTERUS SALMOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
3120 Body	300 Ingestion Inhalation Immersion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.06 ug/g b) 0.16 ug/g c) 0.72 ug/g d) 14.73 ug/g e) 60.0 ug/g	a) Control, no Cd added, 1.06+/-0.02 mg/kg sediment b) 2.21+/-0.11 mg/kg sediment c) 11.30+/-0.06 mg/kg sediment d) 97.6/-3.4 mg/kg sediment e) 1079+/-27 mg/kg sediment Natural a) and CdCl2 (1, 10, 100, 1000 mg) amended b)-e) sediment from nonpolluted stream. Measured levels at embryo-larval stage. Composite samples, 3 replicates/treatment. Experiment terminated 4 d post-hatching (6-7 d total exposure). Levels correlated with sediment/water levels (r>/=0.96). Kentucky, Lexington AAS
FROGS; FISHES; CADMIUM; MORTALITY; BIOACCUMULATION; SEDIMENTS; KENTUCKY; AQUATIC; DELIBERATE EXPOSURE; IN VITRO ANALYSIS Francis, P.C.; Birge, W.J.; Black, J.A. 1984 Environmental Toxicology and Environmental Safety 8:378-387				

Bass, rock
AMBLOPLITES RUPESTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3121 Body	14	0.07-0.81 ug/g Dry wt	0.36 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Beaver
CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3122 Intestine	4 Ingestion	Not given	0.09+/-0.03 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3123 Kidney	4 Ingestion	Not given	1.44+/-1.32 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Beaver
CASTOR CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3124 Liver	4 Ingestion	Not given	0.19+/-0.05 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Bufflehead
BUCEPHALA ALBEOLA

Tissue	Cases Exposure Route	Range	Mean	General Information
3126 Kidney	17 Ingestion	0.88-20.64 ug/g Dry wt	5.51 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3126 Liver	71 Ingestion	0.13-8.70 ug/g Dry wt	1.24 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bullhead
COTTUS GOBIO L.

Tissue	Cases Exposure Route	Range	Mean	General Information
8127 Body	Ingestion Inhalation	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 2.124+/-0.244 ng/g b) 2.079+/-0.094 ng/g c) 2.352+/-0.073 ng/g d) 2.600+/-0.070 ng/g e) 2.253+/-0.050 ng/g f) 2.540+/-0.072 ng/g g) 1.714 ng h) 1.900 ng Log, dry wt S.E.	a) Site 10, 8/5/81, 4 cases, <40 mm long b) Site 17, 8/5/81, 5 cases, <40 mm c) Site 10, 8/5/81, 10 cases, 59-72 mm d) Site 14, 8/5/81, 5 cases, 59-72 mm e) Site 10, 11/4/81, 5 cases, <40 mm f) Site 10, 11/4/81, 5 cases g) Site 10, 8/5/81, 16 cases h) Site 10, 11/4/81, 20 cases Extensive statistical analysis. Body burdens increased with level in sediment, body wt, and length of exposure. Analysis of covariance showed seasonal variation between g) & h). All females, also males in g) and h). Great Britain, Derbyshire, River Ecclesbourne AAS

FISHES; UNITED KINGDOM; AQUATIC; ENVIRONMENTAL EXPOSURE; COMPARATIVE EVALUATIONS; SEDIMENTS; CADMIUM; LEAD
Moriarty, F.; Hanson, H.M.; Freestone, P. 1984 Environmental Pollution (Series A) 34:297-320

Caddisfly
TRICHOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
8128 Body		a) 0-80 ppm b) 160-310 ppm c) 0-40 ppm d) 40-790 ppm e) 140-360 ppm	a) Not given b) Not given c) Not given d) Not given e) Not given	a) Controls during dry weather b) Controls during rain, only c) Station 2, which drains half of business district, during dry weather d) Station 2, which drains half of business district during rain e) Station 3, which receives total cumulative runoff from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS

URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE
Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 484 C

Canvasback
AYTHYA VALISINERIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3120 Kidney	62 Ingestion	0.16-28.68 ug/g Dry wt	6.00 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3120 Liver	64 Ingestion	<0.10-28.51 ug/g Dry wt	3.10 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3181 Blood	a) 8 b) 8 c) 8 Ingestion	a) 0.06-0.45 ug b) 0.04-0.2 ug c) 0.04-0.21 ug /100 ml	a) Not given b) Not given c) Not given	a) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d b) Same amount of Cd and Cu and 264-266 ug Zn/g feed c) Same amount of Cd and Cu and 641-700 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Range of means. Levels by 60 d in a) nearly 2X that of b) and d). Estimated from graph. AAS
3182 Kidney	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.8+/-0.1 ug b) 36.4+/-4.5 ug c) 26.3+/-2.5 ug d) 15.5+/-3.8 ug /g wet weight S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 264-266 ug Zn/g feed d) Same amount of Cd and Cu and 641-700 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) and c), d) ($p<0.01$). Inverse dose repsonse between kidney level and amount of Zn in feed. AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 35:119-129				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3133 Kidney	174	0.005-2.60 mg/kg Wet wt	0.37+/-0.52 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM ; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
3134 Kidney				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Tissue	Cases Exposure Route	Range	Mean	General Information
3136 Liver	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.06+/-0.01 ug b) 5.77+/-0.42 ug c) 6.76+/-1.02 ug d) 4.20+/-0.93 ug /g wet wt S.E.	i) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) and c), d) ($p<0.01$) AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129				

Tissue	Cases Exposure Route	Range	Mean	General Information
3136 Liver	170	0.005-0.57 mg/kg Wet wt	0.06+/-0.09 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY, SELENIUM ; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3137 Liver				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
3138 Milk				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION
Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52

Tissue	Cases Exposure Route	Range	Mean	General Information
3139 Muscle	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.004+/-0.001 ug b) 0.016+/-0.003 ug c) 0.010+/-0.001 ug d) 0.007+/-0.001 ug /g wet wt S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) ($p<0.01$) and b), c) and c), d) ($p<0.05$). AAS

BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES
Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 35:119-120

Tissue	Cases Exposure Route	Range	Mean	General Information
3140 Muscle	181	<0.001-0.04 mg/kg Wet wt	0.001+/-0.003 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 158 samples below detection limit. Australia, Queensland AAS

CATTLE ; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM ; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Valtely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3141 Muscle				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3142 Urine				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Chicken
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3143 Body				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3144 Body	351	0.01-0.14 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8148 Body, whole	9	<0.1-0.35 ug/g Dry wt	<0.1 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. No correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS

BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY
Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-460

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
8146 Body	a) 18 b) 10 c) 16 d) 128 e) 38 Ingestion	a) 0.16-0.35 ug/g b) 0.07-0.32 ug/g c) 0.05-0.40 ug/g d) 0.02-1.13 ug/g e) 0.05-0.70 ug/g Wet wt	a) 0.25 ug/g b) 0.21 ug/g c) 0.21 ug/g d) 0.26 ug/g e) 0.15 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
8147 Body	a) 18 b) 10 c) 18 d) 128 e) 38 Ingestion	a) 0.16-0.35 ug/g b) 0.07-0.32 ug/g c) 0.05-0.40 ug/g d) 0.02-1.13 ug/g e) 0.05-0.70 ug/g Wet wt	a) 0.25 ug/g b) 0.21 ug/g c) 0.21 ug/g d) 0.26 ug/g e) 0.15 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Tissue	Cases Exposure Route	Range	Mean	General Information
8148 Muscle	111	Not given	0.028+/-0.021 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS

CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC
Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23

Cockle
CLINOCARDIUM NUTTALLII

Tissue	Cases Exposure Route	Range	Mean	General Information
8149 Muscle	50	Not given	0.022+/-0.031 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS

CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC
Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Coelenterate

Tissue	Cases Exposure Route	Range	Mean	General Information
3150 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Copepod

Tissue	Cases Exposure Route	Range	Mean	General Information
3151 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3152 Body	a) 8 b) 20 Ingestion	a) 0.12-0.37 ug/g b) 0.01-0.90 ug/g Wet wt	a) 0.24 ug/g b) 0.20 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Crab, Dungeness
CANCER MAGISTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3153 Hepatopancreas	98	Not given	0.149+or-0.099 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Crab, Dungeness
CANCER MAGISTER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
8154 Muscle	124	Not given	0.022+or-0.020 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23				

Crayfish
PACIFASTICUS LENIUSCULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8155 Body, whole		a) Not applicable b) Not applicable c) Not applicable	a) 3.43+/-1.16 ug/g, dry wt b) 0.704+/-0.163 ug/g c) 0.555+/-0.251 ug/g	a) Exposed to elevated sediment metal concentrations for 14 days b) All males c) All females Significantly different, b) and c). Washington, Seattle, Lake Washington and Lake Union ICP-AES
8156 Organs	a) 10 b) 7 c) 13 d) 8	a) Not given b) Not given c) Not given d) Not given	a) 0.2 ug/g b) 0.2 ug/g c) 0.4 ug/g d) 0.4 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Washington, Seattle, Lake Washington and Lake Union ICP-AES
MUSCLES; ORGANS; EXOSKELETON; CRAYFISH; AQUATIC; ENVIRONMENTAL EXPOSURE; WASHINGTON; LEAD; CADMIUM; MERCURY; COPPER; METALS; BIOACCUMULATION; BIOMAGNIFICATION; BIOLOGICAL MONITORING; FOOD CONTAMINATION; SEWAGE; WATER POLLUTION Stinson, M.D.; Eaton, D.L. 1983 Archives of Environmental Contamination and Toxicology 12:693-700				

Dace, blacknose
RHINICHTHYS ATRATULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8157 Body	19	0.41-1.00 ug/g Dry wt	0.76 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Darter, fantail
ETHEOSTOMA FLABELLARE

Tissue	Cases Exposure Route	Range	Mean	General Information
3158 Body	18	0.16-1.02 ug/g Dry wt	0.60 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Dolphin, striped
STENELLA COERULEOALBA

Tissue	Cases Exposure Route	Range	Mean	General Information
3159 Blood	29	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <5.0X10(E-3) ug/g b) 0.039+/-0.026 ug/g c) 0.053+/-0.010 ug/g d) 0.039+/-0.012 ug/g e) 0.026+/-0.008 ug/g f) 0.025+/-0 ug/g g) 0.037+/-0.017 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3160 Blubber	16	Not applicable	0.037+/-0.015 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3161 Bone	5	Not applicable	0.16+/-0.03 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3162 Brain	29	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <1.0x10(E-3) ug/g b) 0.006+/-0.004 ug/g c) 0.026+/-0.004 ug/g d) 0.044+/-0.005 ug/g e) 0.051+/-0.023 ug/g) 0.064+/-0.014 ug/g g) 0.038+/-0.024 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Dolphin, striped
STENELLA COERULEOALBA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3163 Diaphragm	15	Not applicable	0.12+/-0.06 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3164 Heart	15	Not applicable	0.17+/-0.08 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3165 Intestine	15	Not applicable	0.46+/-0.17 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3166 Kidney	45	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <5.0x10(E-3) ug/g b) 12.2+/-13.8 ug/g c) 34.7+/-11.2 ug/g d) 29.1+/-5.08 ug/g e) 25.8+/-18.4 ug/g f) 37.0+/-19.3 ug/g g) 26.4+/-16.2 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3167 Liver	45	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <3.4x10(E-3) ug/g b) 3.03+/-2.61 ug/g c) 7.38+/-0.90 ug/g d) 6.17+/-1.65 ug/g e) 6.25+/-2.05 ug/g f) 6.04+/-3.13 ug/g g) 6.26+/-2.31 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3168 Lung	15	Not applicable	0.42+/-0.10 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3169 Mammary gland	4	Not applicable	0.46+/-0.17 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Dolphin, striped
STENELLA COERULEOALBA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
8170 Milk	10	Not applicable	0.03+/-0.04 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
8171 Muscle	76	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <2.5X10(E-3) ug/g b) 0.03+/-0.01 ug/g c) 0.05+/-0.01 ug/g d) 0.05+/-0.01 ug/g e) 0.10+/-0.03 ug/g f) 0.17+/-0.06 ug/g g) 0.10+/-0.06 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
8172 Ovary	8	Not applicable	0.84+/-0.32 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
8173 Pancreas	16	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <3.0x10(E-3) ug/g b) 1.40 ug/g c) 1.56+/-0.21 ug/g d) 1.44+/-0.51 ug/g e) 1.32+/-0.48 ug/g f) 1.55+/-0.15 ug/g g) 1.43+/-0.42 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
8174 Placenta	15	Not applicable	0.04+/-0.02 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
8175 Skin	8	Not applicable	0.14+/-0.03 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
8176 Spleen	13	Not applicable	0.55+/-0.19 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 488 C

Dolphin, striped
STENELLA COERULEOALBA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3177 Stomach	18	a) Not applicable b) Not applicable	a) 0.44+/-0.35 ug/g b) 1.05+/-0.67 ug/g Wet wt	a) First stomach b) Second Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3178 Testis	8	Not applicable	0.35+/-0.10 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

BODY; LIVER; MUSCLES; PANCREAS; LUNGS; HEART; SPLEEN; INTESTINES; STOMACH; KIDNEYS; BLOOD; ADIPOSE TISSUE; TESTES; OVARIES; SKIN; BONES; PLACENTA; MAMMARY GLANDS; MILK; MAMMALS; DOLPHINS; FISHES; SQUID; CADMIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION
Honda, K.; Tatsukawa, R. 1988 Archives of Environmental Contamination and Toxicology 17:548-550

Duck, black
ANAS RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
3179 Blood, whole	6 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 0.070+/-0.006 ppm b) 0.072+/-0.007 ppm c) 0.082+/-0.006 ppm d) 0.082+/-0.017 ppm e) 0.084+/-0.002 ppm f) 0.079+/-0.012 ppm g) 0.062+/-0.006 ppm Wet wt	a) Controls, fresh b) Formalin, fresh c) Formalin, 2 mo d) Formalin, 8 mo e) Frozen, 2 mo f) Frozen, 8 mo g) Formalin-frozen, 8 mo Methods of preservation and times of analysis. Dose was 10 mg/kg as cadmium chloride in dimethyl sulfoxide. Birds sacrificed 6 hrs after dose. Maryland AAS

BLOOD; DELIBERATE EXPOSURE; ADULTS; METAL POISONING; LEAD POISONING; MEASUREMENT METHODS; MERCURY; CADMIUM; LEAD; DDE; METALS; ACCIDENTAL POISONING; ANIMAL POPULATIONS; BIOACCUMULATION; PESTICIDE RESIDUES; AQUATIC; WATERFOWL
Wiemeyer, S.N.; Moore, J.F.; Mulhern, B.M. 1984 Bulletin of Environmental Contamination and Toxicology 33:525-532

Tissue	Cases Exposure Route	Range	Mean	General Information
3180 Kidney	18 Ingestion	1.66-37.89 ug/g Dry wt	11.49 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, black
ANAS RUBRIPES

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
8161 Liver	128 Ingestion	<0.10-11.75 ug/g Dry wt	1.16 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Duck, long-tailed
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8162 Feathers	a) 26 b) 15 c) 6	a) 0.080-0.17 mg/kg b) 0.040-0.055 mg/kg c) 0.092-0.12 mg/kg Dry wt	a) 0.10 +or- 0.02 mg/kg b) 0.046 +or- 0.005 mg/kg c) 0.10 +or- 0.01 mg/kg Dry wt	a) Males b) Males, oiled c) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
8163 Heart	a) 50 b) 40	a) 0.014-0.021 mg/kg b) 0.025-0.027 mg/kg Wet wt	a) 0.018 +or- 0.003 mg/kg b) 0.026 +or- 0.001 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
8164 Liver	a) 50 b) 40	a) 0.60-0.96 mg/kg b) 0.80-1.1 mg/kg Wet wt	a) 0.76 +or- 0.06 mg/kg b) 0.89 +or- 0.10 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
8165 Muscle	90	a) 0.002-0.032 mg/kg b) 0.001-0.011 mg/kg c) 0.001-0.026 mg/kg d) 0.016-0.032 mg/kg Wet wt	a) 0.010 +or- 0.003 mg/kg b) 0.004 +or- 0.001 mg/kg c) 0.015 +or- 0.012 mg/kg d) 0.020 +or- 0.003 mg/kg Wet wt	a) Males, breast b) Females, breast c) Males, leg d) Females, leg Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, long-tailed
CLANGULA HYEMALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3186 Stomach	a) 50 b) 40	a) 0.014-0.21 mg/kg b) 0.035-0.11 mg/kg Wet wt	a) 0.049 +or- 0.064 mg/kg b) 0.079 +or- 0.022 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
POLAND; BIRDS; IRON; ZINC; MANGANESE; COPPER; LEAD; CADMIUM; COBALT; NICKEL; BIOACCUMULATION; LIVER; MUSCLES; HEART; STOMACH; FEATHERS; AQUATIC; WATERFOWL; ENVIRONMENTAL EXPOSURE Szefer, P.; Falandysz, J. 1983 Science of the Total Environment 29:269-276				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3187 Bone	58 Ingestion	Not given	<0.1 ug/g Dry wt	Ulnar bone concentrations, all treatment groups. Doses/g diet were: 10 ug Cd, 100 mg Cd, 5 ug Cd+5 ug Pb, 50 ug Cd+50 ug Pb. Juveniles 126 d old. Fed as Cl salts in diets 42+/-1 d. Virginia, Blacksburg AAS
3188 Kidney	a) 8 b) 8 c) 7 d) 8 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 2.7+/-0.3 ug/g b) 67.8+/-12.4 ug/g c) 371.8+/-22.3 ug/g c) 371.8+/-22.3 ug/g d) 3.1+/-0.4 ug/g e) 8.4+/-0.8 ug/g f) 24.8+/-3.2 ug/g g) 201.0+/-26.9 ug/g Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug Pb/g diet g) 50 ug Cd+50 ug/g diet Juveniles 126 d old. Fed as Cl salts in 42+/-1 d. Cd concentrates 16X greater than Pb at same level of intake. c) significantly greater than others. e) significantly greater than a). Virginia, Blacksburg GC
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3189 Kidney	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.9+/-0.4 ppm b) 206.8+/-19.6 ppm c) 335.2+/-31.8 ppm d) 540.7+/-43.8 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Dry wt S.E. Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS
DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771				

Tissue	Cases Exposure Route	Range	Mean	General Information
3190 Kidney	25 Ingestion	0.32-28.13 ug/g Dry wt	7.66 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Tissue	Cases Exposure Route	Range	Mean	General Information
3191 Liver	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 0.9+/-0.1 ug/g b) 14.5+/-1.6 ug/g c) 104.8+/-10.1 ug/g d) 0.9+/-0.1 ug/g e) 0.9+/-0.1 ug/g f) 6.5+/-0.8 ug/g g) 54.2+/-3.7 ug/g Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug Pb/g diet g) 50 ug Cd+50 ug/g diet Juveniles 128 d old. Fed as Cl salts in 42+/-1 d. Cd concentrates 15X greater than Pb at same level of intake. c) significantly greater than others. g) significantly greater levels than all but c) Virginia, Blacksburg AAS
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3192 Liver	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.0+/-0.2 ppm b) 54.0+/-12.9 ppm c) 135.4+/-11.9 ppm d) 435.8+/-44.0 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS
DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771				

Tissue	Cases Exposure Route	Range	Mean	General Information
3193 Liver	157 Ingestion	<0.10-4.56 ug/g Dry wt	0.80 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Duck, ring-necked
AYTHYA COLLARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3194 Kidney	8 Ingestion	0.44-9.64 ug/g Dry wt	3.83 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3195 Liver	28 Ingestion	0.19-1.84 ug/g Dry wt	0.91 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, ruddy
OXYURA JAMAICENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8196 Kidney	20 Ingestion	0.39-6.90 ug/g Dry wt	2.72 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
8197 Liver	20 Ingestion	0.18-2.14 ug/g Dry wt	0.82 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS
Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43

Duck, wood
AIX SPONSA

Tissue	Cases Exposure Route	Range	Mean	General Information
8196 Liver	18 Ingestion	<0.10-2.37 ug/g Dry wt	0.64 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS
Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43

Eagle, booted
HIERAETUS PENNATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8199 Eggs	a) 1 b) 5 Ingestion	a) Not given b) Not given	a) 0.030 ppm b) 0.050 ppm Wet wt	a) Collected 1981 b) 1983. Spain AAS

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL
Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Eagle, imperial
AQUILA HELIACA

Tissue	Cases Exposure Route	Range	Mean	General Information
8300 Eggs	a) 6 b) 8 c) 8 d) 10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.193 ppm b) 0.076 ppm c) 0.054 ppm d) 0.048 ppm Wet wt	a) Collected 1980 b) 1981 c) 1982 d) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Earthworm
LUMBRISOUS TERRESTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8201 Body	22,000 Ingestion	Not given	47.8+/-3.7 ppm Dry wt S.E.	Inhabited soil treated with Cd-containing fungicides and Milorganite (sewage sludge by-product). Canada, Ontario ASV
EARTHWORMS; BODY; LIVER; KIDNEYS; MUSCLES; CANADA; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION Pimentel, D.; Culliney, T.; Burgess, M.N.; Stoewsand, G.S.; Anderson, J.L.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Nutrition Reports International 30(2):475-481				

Tissue	Cases Exposure Route	Range	Mean	General Information
8202 Body		20-302 mg/kg	Not given	31 sampling sites 1-15 km from zinc smelter. Soil content 0.1-5.7 mg/kg. Mean dry wt 86+/-26 mg. Netherlands, Eindhoven, S.E., Dutch Kempen region AAS
WORMS; LEAD; ZINC; NETHERLANDS; BODY; SMELTERS; SOILS; CADMIUM; COPPER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE Ma, W.; Edelman, T.; van Beersum, I.; Jans, T. 1983 Bulletin of Environmental Contamination and Toxicology 30:424-427				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Earthworm
LUMBRICUS TERRESTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3203 Body, whole	37	0.40-2.00 ug/wet g	0.88+/-0.44 ug/wet g	Accumulation is dependent upon age or exposure time. Correlations between metal concentrations and body length or weight were significantly positive. Relatively high concentrations found in post-clitellar region. Body burdens increased linearly with increased body length throughout the whole life span. Japan, Matsuyama City, Tsubaki shrine AAS
IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432				

Eel
ANGUILLA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3204 Gills	a) 9 b) 10	a) Not detectable-3 mg/g b) 19-45 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3205 Liver	a) 9 b) 10	a) 4-119 ug/g b) 143-198 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3206 Muscle	a) 9 b) 10	a) Not detectable-119 ug/g b) 1-4 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Finfish

Tissue	Cases Exposure Route	Range	Mean	General Information
3207 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Fish
NANNOPERCA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3206 Muscle	a) 9 b) 10	a) Not detectable b) Not applicable	a) Not applicable b) 5 ug/g Dry wt	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 2 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Flounder, windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3206 Liver	a) 6 b) 16 c) 6 d) 10 e) 9 f) 12 g) 6 h) 10 i) 9 j) 14 k) 4 l) 10 m) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given	a) 0.08 ppm b) 0.54 ppm c) 0.23 ppm d) 0.18 ppm e) 0.35 ppm f) 0.30 ppm g) 0.20 ppm h) 0.10 ppm i) 0.40 ppm j) 0.88 ppm k) 0.10 ppm l) 0.19 ppm m) 0.36 ppm Wet wt	a) 6/78 b) 7/79 c) 5/80 d) 7/80 e) 10/80 f) 7/79 g) 5/80 h) 7/80 i) 10/80 j) 7/79 k) 5/80 l) 7/80 m) 10/80 Milford, CT a)-e), Hempstead Harbor, NY f)-i), Roanoke Point, NY j)-m). Length 18-35 cm. Long Island Sound AAS
LIVER; COPPER; CADMIUM; CONNECTICUT; NEW YORK; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Greig, R.A.; Schurman, S.; Pereira, J.; Naples, P. 1983 Bulletin of Environmental Contamination and Toxicology 31:257-262				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Frog, leopard
RANA PIPIENS

Tissue	Cases Exposure Route	Range	Mean	General Information
3210 Body	Ingestion Inhalation	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.36 ug/g b) 0.08 ug/g c) 0.34 ug/g d) 3.08 ug/g e) 12.55 ug/g	a) Control, no Cd added, 1.04+/-0.6 mg/kg sediment b) 2.28+/-0.14 mg/kg sediment c) 11.48+/-0.21 mg/kg sediment d) 96.8+/-2.4 mg/kg sediment e) 1074+/-14 mg/kg sediment Natural a) and CdCl2 (1, 10, 100, 1000 mg) amended b)-e) sediment from nonpolluted stream. Measured levels at embryo-level stage. Composite samples, 3 replicates/treatment. Experiment terminated 4 d post-hatching (6-7 d total exposure). Levels correlated with sediment/water levels (r>/=0.98). Kentucky, Lexington AAS
FROGS; FISHES; CADMIUM; MORTALITY; BIOACCUMULATION; SEDIMENTS; KENTUCKY; AQUATIC; DELIBERATE EXPOSURE; IN VITRO ANALYSIS Francis, P.C.; Birge, W.J.; Black, J.A. 1984 Exotoxicology and Environmental Safety 8:378-387				

Gadwall
ANAS STREPERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3211 Kidney	9 Ingestion	0.54-98.92 ug/g Dry wt	16.98 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3212 Liver	32 Ingestion	0.18-20.40 ug/g Dry wt	2.53 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Goat
CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3213 Kidney				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
3214 Liver				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Goat
CAPRA sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3215 Urine				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Goldfish
CARASSIUS AURATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3216 Body	Ingestion Inhalation Immersion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.12 ug/g b) 0.15 ug/g c) 0.24 ug/g d) 0.67 ug/g e) 4.61 ug/g	a) Control, no Cd added, 0.07+/-0.26 mg/kg sediment b) 1.03+/-0.09 mg/kg sediment c) 10.48+/-0.55 mg/kg sediment d) 89.7/-7.9 mg/kg sediment e) 1008+/-20 mg/kg sediment Natural a) and CdCl2 (1, 10, 100, 1000 mg) amended b)-e) sediment from nonpolluted stream. Measured levels at embryo-level stage. Composite samples, 3 replicates/treatment. Experiment terminated 4 d post-hatching (6-7 d total exposure). Levels correlated with sediment/water levels (r>/=0.98). Kentucky, Lexington AAS
FROGS; FISHES; CADMIUM; MORTALITY; BIOACCUMULATION; SEDIMENTS; KENTUCKY; AQUATIC; DELIBERATE EXPOSURE; IN VITRO ANALYSIS Francis, P.C.; Birge, W.J.; Black, J.A. 1984 Exotoxicology and Environmental Safety 8:378-387				

Hake
MERLUCIUS MERLUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3217 Muscle	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 65 ug/kg b) 51 ug/kg c) 59 ug/kg Wet wt	a) Thermaikos Gulf b) Kavala Gulf c) Strymonikos Gulf Collected 1980-82. Length 10-35 cm, wt 86-107 g Greece, North Aegean Sea AAS
GREECE; BODY; MUSCLES; CADMIUM; LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; MOLLUSKS Vasilikiotis, G.; Pytlanos, K.; Zotou, A. 1983 Chemosphere 12(1):75-81				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Hobby
FALCO SUBBUTEO

Tissue	Cases Exposure Route	Range	Mean	General Information
3218 Eggs	a) 3 b) 4 Ingestion	a) Not given b) Not given	a) 0.060 ppm b) 0.065 ppm Wet wt	a) Collected 1982 b) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3219 Eggs	a) 2 b) 5 c) 4 Ingestion	a) Not given b) Not given c) Not given	a) 0.521 ppm b) 0.140 ppm c) 0.058 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3220 Eggs	a) 4 b) 4 c) 2 Ingestion	a) Not given b) Not given c) Not given	a) 0.092 ppm b) 0.047 ppm c) 0.062 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Limpet

Tissue	Cases Exposure Route	Range	Mean	General Information
3221 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.

BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION
Ray, S. 1984 Experientia 40(1):14-23

Lizard, water
TRITURUS PYRRHOGASTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3222 Kidney	a) 5 b) 5 Injection	a) Not given b) Not given	a) < reliable limit b) 22.2+/-8.2 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Kidney wt 36+/-8-43+/-6 mg ES
3223 Liver	a) 5 b) 5 Injection	a) Not given b) Not given	a) < reliable limit b) 6.98+/-2.14 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Liver wt 349+/-108-411+/-80 mg ES

AMPHIBIANS; LIVER; KIDNEYS; DELIBERATE EXPOSURE; CADMIUM; COPPER; ZINC; AQUATIC; TERRESTRIAL; IRON; MAGNESIUM; CALCIUM; PHOSPHORUS
Suzuki, K.T.; Ahitomi, H.; Kawamura, R. 1984 Toxicology Letters 21:179-184

Mayfly
EPHEMEROPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3224 Body		a) 0-50 ppm b) 50-140 ppm c) 180-380 ppm d) 160-575 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during wet weather c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS

URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE
Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Minnow, fathead
PIMEPHALES PROMELAS

Tissue	Cases Exposure Route	Range	Mean	General Information
8225 Body, whole		a) Not given b) Not given	a) 0.04+/-0.01 ug/g b) 0.31+/-0.01 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 0.28 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 0.46 ug/L in water. Kentucky, Harrodsburg; Ohio, Newtown AAS
8226 Gills		a) Not given b) Not given	a) 0.16+/-0.03 ug/g b) 0.44+/-0.04 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 0.28 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 0.46 ug/L in water. AAS
8227 Organs		a) Not given b) Not given	a) 0.05+/-0.01 ug/g b) 0.71+/-0.06 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 0.28 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 0.46 ug/L in water. AAS
BODY; ORGANS; GILLS; CADMIUM; COPPER; ZINC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; METALS; BIOCONCENTRATION; BIOLOGICAL MONITORING; COAL; FOSSIL-FUELED POWER PLANTS; FLY ASH; FISHES; WATER POLLUTION; INDUSTRIAL POLLUTION Benson, W.H.; Birge, W.J. 1984 Environmental Toxicology and Chemistry 4:209-217				

Mollusc sp.
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
8226 Body	80	a) Not given b) Not given c) Not given d) Not given	a) 5.5+/-0.9 ug/g b) 5.7+/-1.6 ug/g c) 6.5+/-1.2 ug/g d) 11.4+/-2.6 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels. South Africa
MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:339-343				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mollusk
CHLAMYS OPERCULARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3229 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Tissue	Cases Exposure Route	Range	Mean	General Information
3230 Body	10	a) Not given b) Not given	a) 0.57 +or- 0.19 ug/g b) 2.05 +or- 0.54 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; *BIOACCUMULATION*; *BIOINDICATORS*; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Mollusk, cephalopod

Tissue	Cases Exposure Route	Range	Mean	General Information
3231 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Mullet
MULLUS BARBATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3232 Muscle	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 70 ug/kg b) 34 ug/kg c) 54 ug/kg Wet wt	a) Thermaikos Gulf b) Kevala Gulf c) Strymonikos Gulf Collected 1980-82. Length 11-12 cm, wt 20-31 g Greece, North Aegean Sea AAS
GREECE; BODY; MUSCLES; CADMIUM; LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; MOLLUSKS Vasilikiotis, G.; Fytianos, K.; Zotou, A. 1983 Chemosphere 12(1):75-81				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mussel
MYTILUS GALLOPROVINCIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3283 Body		a) 130-170 ug/kg b) 154-160 ug/kg c) 85-158 ug/kg Wet wt	a) 155 ug/kg b) 157 ug/kg c) 122 ug/kg Wet wt	a) Thermaikos Gulf b) Kavala Gulf c) Strymonikos Gulf Collected 1980-82. Length 3-6 cm, wt 3-11 g
GREECE; BODY; MUSCLES; CADMIUM; LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; MOLLUSKS Vasilikiotis, G.; Fytianos, K.; Zotou, A. 1983 Chemosphere 12(1):75-81				

Tissue	Cases Exposure Route	Range	Mean	General Information
3284 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Tissue	Cases Exposure Route	Range	Mean	General Information
3285 Body	10	a) Not given b) Not given	a) 0.27 +or- 0.06 ug/g b) 1.40 +or- 0.16 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 406 C

Mussel
MYTILUS GALLOPROVINCIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3236 Gills	36 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given	a) 4.5 ng/g b) 8.6 ng/g c) 2.85 ng/g d) 4.5 ng/g e) 15.6 ng/g f) 13.3 ng/g g) 41.3 ng/g h) 57.5 ng/g i) 11.3 ng/g j) 47.9 ng/g k) 95.2 ng/g l) 146.6 ng/g	a) 1 day, heavy molecular wt (HMW) fraction b) 3 days, HMW fraction c) 3 days, followed by 7 days in uncontaminated water, HMW fraction d) 1 day, metallothionein (Mt) fraction e) 3 days, metallothionein (Mt) fraction f) 3 days, followed by 7 days in uncontaminated water, Mt fraction g) 4 hr, HMW fraction h) 8 hr, HMW fraction i) 24 hr, HMW fraction j) 4 hr, Mt fraction k) 8 hr, Mt fraction l) 24 hr, Mt fraction Exposure times to 1 ppb in water a)-f), times after 2 ug injection into hepatopancreas. CC
3237 Hepatopancreas	36 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given	a) 7.2 ng/g b) 8.5 ng/g c) 6.3 ng/g d) 9.8 ng/g e) 20.9 ng/g f) 25.6 ng/g g) 63.6 ng/g h) 23.0 ng/g i) 16.1 ng/g j) 334.8 ng/g k) 163.5 ng/g l) 118.6 ng/g	a) 1 day, heavy molecular wt (HMW) fraction b) 3 days, HMW fraction c) 3 days, followed by 7 days in uncontaminated water, HMW fraction d) 1 day, metallothionein (Mt) fraction e) 3 days, metallothionein (Mt) fraction f) 3 days, followed by 7 days in uncontaminated water, Mt fraction g) 4 hr, HMW fraction h) 8 hr, HMW fraction i) 24 hr, HMW fraction j) 4 hr, Mt fraction k) 8 hr, Mt fraction l) 24 hr, Mt fraction Exposure times to 1 ppb in water a)-f), times after 2 ug injection into hepatopancreas. CC
3238 Kidney	18 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 15.2 ng/g b) 86.9 ng/g c) 158.2 ng/g d) 114.3 ng/g e) 110.5 ng/g f) 407.6 ng/g	a) 4 hr, heavy molecular wt (HMW) fraction b) 8 hr, HMW fraction c) 24 hr, HMW fraction d) 4 hr, metallothionein (Mt) fraction e) 8 hr, Mt fraction f) 24 hr, Mt fraction Times after 2 ug injection into hepatopancreas. CC

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mussel
MYTILUS GALLOPROVINCIALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3288 Mantle	36 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 1.1 ng/g b) 3.0 ng/g c) 2.1 ng/g d) 0.83 ng/g e) 6.00 ng/g f) 4.30 ng/g g) 2.3 ng/g h) 9.5 ng/g	a) 1 day, heavy molecular weight (HMW) fraction b) 3 days, HMW fraction c) 3 days, followed by 7 days in uncontaminated water, HMW fraction d) 1 day, metallothiomein (Mt) fraction e) 3 days, Mt fraction f) 3 days, followed by 7 days in uncontaminated water, Mt fraction g) 24 hr, HMW fraction h) 24 hr, Mt fraction Exposure times to 1 ppb in water a)-f), times after 2 ug injection into hepatopancreas. CC
METALS; BIOACCUMULATION; METABOLISM; KIDNEYS; GILLS; MANTLE; MOLLUSKS; CADMIUM; AQUATIC; DELIBERATE EXPOSURE Nolan, C.V.; Duke, E.J. 1983 Chemosphere 12(1):65-74				

Myctophid

Tissue	Cases Exposure Route	Range	Mean	General Information
3240 Body, whole	a) 10 b) 4	a) Not given b) Not given	a) 0.03 ug/g b) 0.02 ug/g Wet wt	a) Small fish (3.5-4.5 cm) b) Large fish (6.5-7.5 cm) Food of striped dolphin. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
BODY; LIVER; MUSCLES; PANCREAS; LUNGS; HEART; SPLEEN; INTESTINES; STOMACH; KIDNEYS; BLOOD; ADIPOSE TISSUE; TESTES; OVARIES; SKIN; BONES; PLACENTA; MAMMARY GLANDS; MILK; MAMMALS; DOLPHINS; FISHES; SQUID; CADMIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION Honda, K.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:543-550				

Oldsquaw
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3241 Kidney	7 Ingestion	3.10-71.15 ug/g Dry wt	27.62 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levels linked to carnivorous diet. Possible sublethal effects. Data pooled includes white-winged scoters. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Oldsquaw
CLANGULA HYEMALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3242 Liver	36 Ingestion	0.41-14.82 ug/g Dry wt	5.47 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levels linked to carnivorous diet. Possible sublethal effects. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3248 Intestine	4 Ingestion	Not given	0.07+/-0.02 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3244 Kidney	4 Ingestion	Not given	0.13+/-0.05 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Otter, river
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3245 Bone	a) 198 c) 76	a) Not given b) <0.04-0.27 mg/g Dry wt	a) <0.04 mg/g b) <0.04 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
3246 Kidney	a) 221 b) 169	a) <0.04-14.09 mg/g b) <0.04-5.10 mg/g Dry wt	a) 0.61 +or- 0.09 mg/g b) 0.37 +or- 0.04 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Otter, river
LUTRA CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3247 Liver	a) 226 b) 181	a) <0.04-0.99 mg/g b) <0.04-1.66 mg/g Dry wt	a) 0.09 +or- 0.01 mg/g b) 0.17 +or- 0.07 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
OTTERS; CADMIUM; COPPER; LEAD; ZINC; BIOACCUMULATION; WATER POLLUTION; BONES; KIDNEYS; LIVER; VIRGINIA Anderson-Bledsoe, K.L.; Scanlon, P.F. 1988 Bulletin of Environmental Contamination and Toxicology 30:442-447				

Oyster
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3240 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Tissue	Cases Exposure Route	Range	Mean	General Information
3240 Body	10	a) Not given b) Not given	a) 1.13 +or- 0.35 ug/g b) 2.70 +or- 0.90 ug/g Wet wt	a) Controls b) 100 ug/l for 8 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-323				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Oyster
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
8280 Body	a) 12 b) 12 c) 12 d) 12	a) Not given b) Not given c) Not given d) Not given	a) 83.0 ug/g b) 80.4 ug/g c) 0 ug/g d) 10.5 ug/g Wet wt	a) 4-day exposure to 100 ug/L b) Same Cd exposure plus 24 hrs to 800 ug/L naphthalene c) 80 ug/L naphthalene d) 100 ug/L Cd plus 80 ug/L naphthalene Edge of shell margin removed for constant exposure. South Carolina, Bulls Bay Gamma counting

BRAIN; GALL BLADDER; KIDNEYS; SKIN; GILLS; HEART; LIVER; MUSCLES; BLOOD; BODY; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; SOUTH CAROLINA; CADMIUM; BIOACCUMULATION; OYSTERS; WATER POLLUTION

Fair, P.A.; Sick, L.V. 1983 Archives of Environmental Contamination and Toxicology 12:551-557

Oyster, American
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
8281 Body	a) 104 b) 120 c) 96 d) 281 e) 376 Ingestion	a) 0.52-7.80 ug/g b) 0.28-8.80 ug/g c) 0.19-5.92 ug/g d) 0.16-5.01 ug/g e) 0.06-2.38 ug/g Wet wt	a) 2.06 ug/g b) 1.28 ug/g c) 1.31 ug/g d) 0.96 ug/g e) 0.64 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Bieneberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Oyster, Pacific
CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
8283 Body	10	a) Not given b) Not given	a) 0.57 +or- 0.13 ug/g b) 6.3 +or- 2.3 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA

Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-323

Cadmium
7440-43-9
Cd
AtW 112.40, MF 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Perch
PERCA FLUVIATALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8339 Gills	a) 1 b) 10	a) Not detected b) 8-70 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means for 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS

GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE
Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354

Tissue	Cases Exposure Route	Range	Mean	General Information
8264 Liver	a) 18 b) 11 c) 10 d) 18 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 3.7+/-0.6 ug/g b) 30.6+/-10.7 ug/g c) 21.1+/-5.0 ug/g d) 27.1+/-6.9 ug/g Dry wt S.E.	a) Uncontaminated sites, Ryssnage, 9 km and Pinejon, 7 km upstream b) Karrhultesjon Lake, 10 km downstream c) Gronshogesjon Lake, 11 km downstream d) Karlshammer, site on river 16 km downstream Distance from Plieseryd accumulator factory which released Cd and Ni into Eman River system. Sweden, Eman River system Number of lymphocytes 40-100% greater in contaminated perch, anemia, disturbed carbohydrate metabolism and blood plasma composition AAS

FISHES; PERCH; CADMIUM; LIVER; SWEDEN; BIOACCUMULATION; INDUSTRIAL POLLUTION; ENVIRONMENTAL EXPOSURE; AQUATIC
Sjobeck, M.; Haux, C.; Larsson, A.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:303-312

Tissue	Cases Exposure Route	Range	Mean	General Information
8265 Liver	a) 10 b) 10 c) 10 Ingestion	a) Not given b) Not given c) Not given	a) 1.0+/-0.2 ug/g b) 1.1+/-0.3 ug/g c) 1.0+/-0.3 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy-metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS

LIVER; MUSCLES; FISHES; AQUATIC; DELIBERATE EXPOSURE; SWEDEN; METAL POISONING; ZINC; LEAD; COPPER; CADMIUM; MERCURY; ARSENIC; BIOACCUMULATION; INDUSTRIAL POLLUTION; WATER POLLUTION; ADULTS
Larsson, A.; Haux, C.; Sjobeck, M.-L.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:116-126

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Perch
PERCA FLUVIATALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
5256 Liver	a) 1 b) 4	a) Not detectable-21 ug/g b) 150-643 ug/g Wet wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means for 2 and 3 sampling areas, respectively Australia, Tasmania, South Esk River AAS
5267 Muscle	a) 8 b) 10	a) Not detected b) 1-13 ug/g Wet w.	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means for 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:848-854				

Periwinkle

Tissue	Cases Exposure Route	Range	Mean	General Information
5256 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Phytoplankton

Tissue	Cases Exposure Route	Range	Mean	General Information
5256 Body				Review. Bioaccumulation in marine organisms source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewd.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Pintail
ANAS ACUTA

Tissue	Cases Exposure Route	Range	Mean	General Information
5260 Kidney	5 Ingestion	2.47-13.69 ug/g Dry wt	5.65 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Pintail
ANAS ACUTA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
8261 Liver	24 Ingestion	<0.10-3.70 ug/g Dry wt	1.04 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Quail, Japanese
COTURNIX COTURNIX JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
8263 Kidney	a) 8 b) 8 Ingestion	a) Not given b) Not given	a) 18.70+/-2.35 ppm b) 17.70+/-0.30 ppm Dry wt S.E.	a) Males b) Females Fed diet containing 50% (dry wt) ground earthworms exposed to Cd-containing fungicides and Milorganite (47.8 ppm Cd in worms). Diet consumed for 27 d. Chicks 40 d old. Average wt at end of experiment: a) 86.4+/-1.7 g, b) 95.3+/-2.6 g. New York, Ithaca Stripping voltammetry
8262 Liver	a) 8 b) 8 Ingestion	a) Not given b) Not given	a) 4.71+/-0.62 ppm b) 5.29+/-0.43 ppm Dry wt S.E.	a) Males b) Females Fed diet containing 50% (dry wt) ground earthworms exposed to Cd-containing fungicides and Milorganite (47.8 ppm Cd in worms). Diet consumed for 27 d. Chicks 40 d old. Average wt at end of experiment: a) 86.4+/-1.7 g, b) 95.3+/-2.6 g. New York, Ithaca Stripping voltammetry
8264 Muscle	a) 8 b) 8 Ingestion	a) Not given b) Not given	a) 0.14+/-0.03 ppm b) 0.08+/-0.01 ppm Dry wt S.E.	a) Males b) Females Fed diet containing 50% (dry wt) ground earthworms exposed to Cd-containing fungicides and Milorganite (47.8 ppm Cd in worms). Diet consumed for 27 d. Chicks 40 d old. Average wt at end of experiment: a) 86.4+/-1.7 g, b) 95.3+/-2.6 g. New York, Ithaca Stripping voltammetry
EARTHWORMS; BODY; LIVER; KIDNEYS; MUSCLES; CANADA; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION Pimentel, D.; Cullinay, T.; Burgess, M.N.; Stoewsand, G.S.; Anderson, J.L.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Nutrition Reports International 30(2):475-481				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3265 Kidney	4 Ingestion	Not given	1.22+/-0.41 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3266 Liver	4 Ingestion	Not given	0.23+/-0.09 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Scallop
PECTEN MAXIMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3267 Body				Review. Bioaccumulation in marine organisms source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewd.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Scaup, greater
AYTHYA MARILA

Tissue	Cases Exposure Route	Range	Mean	General Information
3268 Kidney	11 Ingestion	0.82-15.45 ug/g Dry wt	7.40 ug/g Dry wt	Collected winters 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3269 Liver	13 Ingestion	<0.10-3.16 ug/g Dry wt	1.56 ug/g Dry wt	Collected winters 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Ginlio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Scaup, lesser
AYTHYA AFFINIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3270 Kidney	69 Ingestion	0.48-17.78 ug/g Dry wt	6.10 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3271 Liver	68 Ingestion	<0.10-4.03 ug/g Dry wt	1.25 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Scoter, white-winged
MELANITTA FUSCA DEGLANDI

Tissue	Cases Exposure Route	Range	Mean	General Information
3272 Kidney	7 Ingestion	3.10-71.15 ug/g Dry wt	27.62 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levles linked to carnivorous diet. Possible sublethal effects. Data pooled includes oldsquaws. Chesapeake Bay AAS
3273 Liver	7 Ingestion	<0.10-13.29 ug/g Dry wt	3.10 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levels linked to carnivorous diet. Possible sublethal effects. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
8274 Blood	144 Ingestion	a) 0.02-0.06 mg/kg wet wt b) 0.03-0.10 mg/kg wet wt c) Not applicable d) Not applicable e) 0.06-0.09 mg/kg wet wt f) 0.01-0.43 mg/kg wet wt	a) Not applicable b) Not applicable c) 0.01 mg/kg wet wt d) 0.01 mg/kg wet wt e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Canada; Greenland; Northwest Atlantic; Arctic AAS
8275 Brain	168 Ingestion	a) 0.05-0.06 mg/kg b) 0.05-0.09 mg/kg c) 0.02-0.05 mg/kg d) 0.02-0.06 mg/kg e) 0.01-0.11 mg/kg f) 0.05-0.38 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Canada; Greenland; Northwest Atlantic; Arctic AAS
8276 Kidney	383 Ingestion	a) 1.55-20.4 mg/kg b) 0.48-38.8 mg/kg c) 1.32-26.6 mg/kg d) 0.16-31.9 mg/kg e) 7.01-30.8 mg/kg f) 4.62-36.4 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Accumulated with age. Canada; Greenland; Northwest Atlantic; Arctic AAS

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3277 Liver	216 Ingestion	a) 0.18-6.97 mg/kg b) 0.33-12.0 mg/kg c) 0.92-6.20 mg/kg d) 0.06-4.39 mg/kg e) 1.44-4.74 mg/kg f) 0.90-7.98 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Accumulated with age. Levels correlated with Se (r=0.56). Canada; Greenland; Northwest Atlantic; Arctic AAS
3278 Muscle	228 Ingestion	a) 0.04-0.06 mg/kg b) 0.05-0.14 mg/kg c) 0.02-0.10 mg/kg d) 0.01-0.30 mg/kg e) 0.05-0.15 mg/kg f) 0.03-0.48 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher than males. Canada; Greenland; Northwest Atlantic; Arctic AAS
SEALS; CADMIUM; LEAD; MERCURY; SELENIUM; COPPER; BIOACCUMULATION; BIOLOGICAL MONITORING; CANADA; GREENLAND; BLOOD; KIDNEYS; MUSCLES; LIVER; BRAIN; AGE; ARCTIC; ATLANTIC; SEX; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION Ronald, K.; Frank, R.J.; Deugan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:156-166				

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3279 Bone	a) 8 b) 8 c) 8	a) Not given b) Not given c) Not given	a) 2.05 ug/g b) 0.71 ug/g c) 1.40 ug/g Dry wt +/-0.22 S.E.	Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. Ewes on diets for 2 yr. a) significantly different from b) and c), $p<0.05$. New Mexico AAS
KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 29(1):11-21				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3280 Kidney		a) Not given b) Not given	a) 0.84+/-0.07 mg/kg b) 0.43+/-0.08 mg/kg dry wt	a) Control b) Fed sugar beets grown on municipal sludge-amended soil for 56 d Not significantly different. Finn-Dorset Lambs. New York, Syracuse ASV

KIDNEYS; LIVER; MUSCLES; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; NEW YORK; CADMIUM; ANIMAL FEEDS; AGRICULTURE; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; MEAT; SOILS; VEGETABLES

Telford, J.N.; Babish, J.G.; Dunham, P.B.; Hogue, D.E.; Miller, K.W.; Stoewsand, G.S.; Magee, B.N.; Stougger, J.R.; Bache, C.A.; Lisk, D.J. 1984 American Journal of Veterinary Research 45(12):2489-2494

Tissue	Cases Exposure Route	Range	Mean	General Information
3281 *Kidney*	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 0.06 ug/g b) 0.06 ug/g c) 0.05 ugg Dry wt +/-0.01 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 30(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3282 Kidney	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.55+/-0.14 ppm b) 0.88+/-0.17 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 53.0 ppm Cd, dry wt 5-mo-old Merlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polarographic analysis

KIDNEYS; LIVER; MUSCLES; TESTES; SHEEP; DELIBERATE EXPOSURE; NEW YORK; JUVENILES; METAL POISONING; CADMIUM; ANIMAL FEEDS; AGRICULTURE; ANIMAL POPULATIONS; BIOACCUMULATION; FARMS; HEALTH HAZARDS; SEWAGE; SOILS; VEGETATION; TERRESTRIAL

Hogue, D.E.; Parrish, J.J.; Foote, R.H.; Stouffer, J.R.; Anderson, J.L.; Stoewsand, G.S.; Telford, J.N.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Journal of Toxicology and Environmental Health 14:175-181

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3283 Liver		a) Not given b) Not given	a) 0.07+/-0.01 mg/kg b) 0.17+/-0.04 mg/kg dry wt	a) Control b) Fed sugar beets grown on municipal sludge-amended soil for 66 d Not significantly different. Finn-Dorset Lambs. New York, Syracuse ASV

KIDNEYS; LIVER; MUSCLES; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; NEW YORK; CADMIUM; ANIMAL FEEDS; AGRICULTURE; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; MEAT; SOILS; VEGETABLES

Telford, J.N.; Babish, J.G.; Dunham, P.B.; Hogue, D.E.; Miller, K.W.; Stoewsand, G.S.; Magee, B.H.; Stougger, J.R.; Bache, C.A.; Lisk, D.J. 1984 American Journal of Veterinary Research 45(12):2490-2494

Tissue	Cases Exposure Route	Range	Mean	General Information
3284 Liver	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 0.06 ug/g b) 0.06 ug/g c) 0.12 ug/g Dry wt +/-0.002 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7 % undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3285 Liver	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.22+/-0.04 ppm b) 0.40+/-0.08 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 88.0 ppm Cd, dry wt 8-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polarographic analysis

KIDNEYS; LIVER; MUSCLES; TESTES; SHEEP; DELIBERATE EXPOSURE; NEW YORK; JUVENILES; METAL POISONING; CADMIUM; ANIMAL FEEDS; AGRICULTURE; ANIMAL POPULATIONS; BIOACCUMULATION; FARMS; HEALTH HAZARDS; SEWAGE; SOILS; VEGETATION; TERRESTRIAL

Hogue, D.E.; Parrish, J.J.; Foote, R.H.; Stouffer, J.R.; Anderson, J.L.; Stoewsand, G.S.; Telford, J.N.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Journal of Toxicology and Environmental Health 14:153-161

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 488 C

'ep
'S ep.

Tissue	Cases Exposure Route	Range	Mean	General Information
2286 Muscle		a) Not given b) Not given	a) 0.04+/-0.02 mg/kg b) 0.03+/-0.02 mg/kg dry wt	a) Control b) Fed sugar beets grown on municipal sludge-amended soil for 66 d Not significantly different. Finn-Dorset Lambs New York, Syracuse ASV

KIDNEYS; LIVER; MUSCLES; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; NEW YORK; CADMIUM; ANIMAL FEEDS; AGRICULTURE; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; MEAT; SOILS; VEGETABLES

Telford, J.N.; Babish, J.G.; Dunham, P.B.; Hogue, D.E.; Miller, K.W.; Stoewsand, G.S.; Magee, B.H.; Stougger, J.R.; Bache, C.A.; Lisk, D.J. 1984 American Journal of Veterinary Research 45(12):2429-2434

Tissue	Cases Exposure Route	Range	Mean	General Information
2287 Muscle	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.03+/-0.01 ppm b) 0.09+/-0.04 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 88.0 ppm Cd, dry wt 3-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polarographic analysis
2288 Testis	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.02+/-0.00 ppm b) 0.02+/-0.00 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 88.0 ppm Cd, dry wt 3-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polarographic analysis

KIDNEYS; LIVER; MUSCLES; TESTES; SHEEP; DELIBERATE EXPOSURE; NEW YORK; JUVENILES; METAL POISONING; CADMIUM; ANIMAL FEEDS; AGRICULTURE; ANIMAL POPULATIONS; BIOACCUMULATION; FARMS; HEALTH HAZARDS; SEWAGE; SOILS; VEGETATION; TERRESTRIAL

Hogue, D.E.; Parrish, J.J.; Foote, R.H.; Stouffer, J.R.; Andersen, J.L.; Stoewsand, G.S.; Telford, J.N.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Journal of Toxicology and Environmental Health 14:153-161

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C
Sheep, Finn-Dorset
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8300 Kidney	a) 5 b) 5 c) 5 d) 5 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.32+/-0.05 ppm b) 0.94+/-0.17 ppm c) 0.38+/-0.06 ppm d) 1.22+/-0.10 ppm Dry wt S.E.	a) Control diet, ewes, 0.06 ppm b) Sludge-amended diet, ewes, 0.71 ppm c) Control diet, rams, 0.06 ppm d) Sludge-amended diet, rams, 0.71 ppm 8 mo old lambs fed 102 d hay grown on sewage sludge-amended pasture, control hay on same soil, no sludge. Significant differences between controls, treated. New York, Syracuse, Ley Creek Sewage Treatment Plant; New York, Ithaca Rams fed hay grown on sludge-amended soil had significantly higher liver mixed-function oxidase activity, indicating induction by organic compounds in the sewage sludge. ASV
8200 Liver	a) 5 b) 5 c) 5 d) 5 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.09+/-0.01 ppm b) 0.38+/-0.04 ppm c) 0.09+/-0.02 ppm d) 0.46+/-0.08 ppm Dry wt S.E.	a) Control diet, ewes, 0.06 ppm b) Sludge-amended diet, ewes, 0.71 ppm c) Control diet, rams, 0.06 ppm d) Sludge-amended diet, rams, 0.71 ppm 8 mo old lambs fed 102 d hay grown on sewage sludge-amended pasture, control hay on same soil no sludge. Significant differences between controls, treated. New York, Syracuse, Ley Creek Sewage Treatment Plant; New York, Ithaca Rams fed hay grown on sludge-amended soil had significantly higher liver mixed-function oxidase activity, indicating induction by organic compounds in the sewage sludge. ASV
8201 Muscle	a) 5 b) 5 c) 5 d) 5 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.01+/-0.00 ppm b) 0.03+/-0.00 ppm c) 0.02+/-0.00 ppm d) 0.02+/-0.01 ppm Dry wt S.E.	a) Control diet, ewes, 0.06 ppm b) Sludge-amended diet, ewes, 0.71 ppm c) Control diet, rams, 0.06 ppm d) Sludge-amended diet, rams, 0.71 ppm 8 mo old lambs fed 102 d hay grown on sewage sludge-amended pasture, control hay on same soil, no sludge. No significant differences. New York, Syracuse, Ley Creek Sewage Treatment Plant; New York, Ithaca Rams fed hay grown on sludge-amended soil had significantly higher liver mixed-function oxidase activity, indicating induction by organic compounds in the sewage sludge. ASV

SHEEP; CADMIUM; KIDNEYS; LIVER; MUSCLES; SEWAGE; SEDIMENTS; BIOACCUMULATION; DIETS; ENZYMES; BIOINDICATORS; TERRESTRIAL; DELIBERATE EXPOSURE

Telford, J.N.; Hogue, D.E.; Stouffer, J.R.; Magee, B.N.; Miller, K.W.; Stoewsand, G.S.; Kraus, J.M.S.; Bache, C.A.; Lisk, D.J. 1984 Nutrition Reports International 29(6):1391-1401

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Shell, wedge
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
8292 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.10 ug/g b) 0.54 ug/g c) 1.05 ug/g d) 2.10 ug/g e) 0.08+/-0.03 ug/g f) 1.42+/-0.56 ug/g g) 2.53+/-1.00 ug/g h) 3.10+/-1.16 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L e) Control f) 100 ug/L g) 250 ug/L h) 500 ug/L a-d), 8-wk exposure to sublethal levels. e-h) 1 wk exposure South Africa
8293 Digestive gland	80	a) Not given b) Not given c) Not given d) Not given	a) 0.06 ug/g b) 0.42 ug/g c) 1.02 ug/g d) 1.52 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels. South Africa
8294 Foot	80	a) Not given b) Not given c) Not given d) Not given	a) 0.07 ug/g b) 0.18 ug/g c) 0.24 ug/g d) 0.47 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels.
8295 Gills	80	a) Not given b) Not given c) Not given d) Not given	a) 0.27 ug/g b) 3.38 ug/g c) 8.08 ug/g d) 10.67 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels. South Africa
8296 Gonads	80	a) Not given b) Not given c) Not given d) Not given	a) 0.11 ug/g b) 0.49 ug/g c) 0.75 ug/g d) 1.11 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels.
8297 Mantle	80	a) Not given b) Not given c) Not given d) Not given	a) 0.08 ug/g b) 0.30 ug/g c) 0.70 ug/g d) 1.16 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels. South Africa
8298 Muscle	80	a) Not given b) Not given c) Not given d) Not given	a) 0.14 ug/g b) 0.65 ug/g c) 1.31 ug/g d) 2.97 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels. South Africa

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Shell, wedge
DONAX SERRA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3200 Syphon	80	a) Not given b) Not given c) Not given d) Not given	a) 0.15 ug/g b) 0.30 ug/g c) 0.46 ug/g d) 0.73 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 8-wk exposures to sublethal levels. South Africa
MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:330-343				

Shrew, common
SOREX ARANEUS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3300 Body	a) 13 b) 17 Ingestion	a) 0.7-1.74 ug/g b) 35.5-76.5 ug/g Dry wt	a) 1.19+/-0.07 ug/g b) 52.7+/-3.4 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 28.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3301 Bone	30 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.56+/-0.06 ug/g b) 1.56+/-0.21 ug/g c) 0.87+/-0.06 ug/g d) 0.61+/-0.08 ug/g e) 1.0+/-0.1 ug/g f) 1.89+/-0.10 ug/g g) 1.29+/-0.10 ug/g h) 1.4+/-0.84 ug/g Dry wt S.E.	a) Lower mandible, control site b) Lower mandible, mine site c) Skull, control site d) Skull, mine site e) Femur, control site f) Femur, mine site g) Pelvic girdle, control site h) Pelvic girdle, mine site Estimated control diet level 2.1 ug/g dry wt, mine diet level 28.2 ug/g dry wt. Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Femur and skull levels at mine site significantly greater than controls. England, central AAS
3302 Heart	a) 13 b) 17 Ingestion	a) Not given b) Not given	a) 2.08+/-0.22 ug/g b) 68.1+/-6.6 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 28.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Shrew, common
SOREX ARANEUS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3308 Kidney	a) 18 b) 17 Ingestion	a) Not given b) Not given	a) 4.13+/-0.72 ug/g b) 158.1+/-15.4 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3304 Liver	a) 18 b) 17 Ingestion	a) Not given b) Not given	a) 2.85+/-0.55 ug/g b) 335.8+/-20.7 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3305 Muscle	a) 18 b) 17 Ingestion	a) Not given b) Not given	a) 0.81+/-0.16 ug/g b) 8.04+/-1.26 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
CADMIUM; BIOACCUMULATION; BIOMAGNIFICATION; DIETS; LIVER; KIDNEYS; BONES; MUSCLES; HEART; LAND POLLUTION; INDUSTRIAL POLLUTION; BIOLOGICAL MONITORING; VEGETATION; SHREWS; BODY; TERRESTRIAL; ENGLAND; ENVIRONMENTAL EXPOSURE Andrews, S.M.; Johnson, M.S.; Cooke, J.A. 1984 Environmental Pollution (Series A) 35:155-163				

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
3308 Alimentary canal	Ingestion	a) Not given b) Not given	a) Not detected b) 1100+/-106 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3307 Fat body	Ingestion	a) Not given b) Not given	a) Not detected b) 3.45+/-0.17 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cause Exposure Route	Range	Mean	General Information
8808 Gonads	Ingestion	a) Not given b) Not given	a) Not detectable b) 4.39 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
8809 Head	Ingestion	a) Not given b) Not given	a) Not detected b) 10.5+/-1.9 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
8810 Integument	Ingestion	a) Not given b) Not given	a) Not detected b) 2.60+/-0.17 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
8811 Malpighian tubes	Ingestion	a) Not given b) Not given	a) Not detectable b) 470+/-10 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
8812 Silk gland	Ingestion	a) Not given b) Not given	a) Not detected b) 0.661+/-0.105 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
8815 Trachea	Ingestion	a) Not given b) Not given	a) Not detectable b) 4.36+/-0.25 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION

Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-255

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3816 Body	797	2.1-6.8 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. Higher levels in smaller individuals. Levels slightly higher in western area. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1988 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Snail, saltwater
NUCELLA LAPILLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3816 Body	45 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 11.6+/-2.4 ppm b) 26.1+/-5.9 ppm c) 25.7+/-5.1 ppm d) 11.9+/-3.4 ppm e) 18.4+/-5.3 ppm f) 8.1+/-0.6 ppm	a) Eastport, ME, large embayment b) Pemaquid Pt., ME, exposed coastal c) New Harbor, ME, close to marina and harbors, sheltered harbor d) Manomet, MA, large embayment e) Pt. Judith, RI, industrial effluents, marinas, coastal f) Avery Pt., CT, industrial and sewage effluents, marinas, river mouth. Pseudohermaphrodites (females with penis) common at c), e), f), polluted boating areas (94-100% frequency). Relatively unpolluted areas, no abnormalities a), b), d). "Imposex" associated with heavy metals Cd not implicated. Maine; Massachusetts; Rhode Island; Connecticut AAS
SNAILS; BODY; CADMIUM; ZINC; COPPER; CHROMIUM; IRON; AQUATIC; WATER POLLUTION; POPULATION EXPOSURE; SEX; MAINE; RHODE ISLAND; MASSACHUSETTS; CONNECTICUT; ENVIRONMENTAL EXPOSURE Miller, B.R.; Pondich, J.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:613-620				

Squid
TODARODES PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3816 Liver	8	20.8-41.8 ug/g Wet wt	31.1 ug/g Wet wt	Food of striped dolphin. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Squid
TODARODES PACIFICUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
8817 Muscle	3	0.21-0.90 ug/g Wet wt	0.65 ug/g Wet wt	Food of striped dolphin. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
BODY; LIVER; MUSCLES; PANCREAS; LUNGS; HEART; SPLEEN; INTESTINES; STOMACH; KIDNEYS; BLOOD; ADIPOSE TISSUE; TESTES; OVARIES; SKIN; BONES; PLACENTA; MAMMARY GLANDS; MILK; MAMMALS; DOLPHINS; FISHES; SQUID; CADMIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION Honda, K.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:543-550				

Stonefly
PLECOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
8818 Body		a) 0-210 ppm b) 210-375 ppm c) 0-360 ppm d) 260-300 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during wet weather c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Sucker, northern hog
HYPENTELIUM NIGRICANS

Tissue	Cases Exposure Route	Range	Mean	General Information
8819 Body	12	0.32-0.50 ug/g Dry wt	0.40 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
8920 Body	26	0.09-0.62 ug/g Dry wt	0.44 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Sunfish, redbreast
LEPOMIS AURITUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8921 Body	3	0.03-1.05 ug/g Dry wt	0.40 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8922 Kidney				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
8923 Liver				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
8924 Muscle				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Teal, green-winged
ANAS CRECCA CAROLINENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3325 Liver	16 Ingestion	<0.10-1.78 ug/g Dry wt	0.67 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS
Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48

Tench
TINCA TINCA

Tissue	Cases Exposure Route	Range	Mean	General Information
3326 Gills	a) 4 b) 9	a) Not detected b) 19-95 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
3327 Liver	a) 4 b) 9	a) Not detected-1ug/g b) 63-116 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
3328 Muscle	a) 4 b) 9	a) Not detected b) 1-16 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS

GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE
Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3329 Liver	2	Not given	1 ug/g Dry wt	Upstream of metal inflow, 1 sampling area Australia, Tasmania, South Esk River AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 488 C

Trout, brown
SALMO TRUTTA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3330 Muscle	20	2-25 ug/g Dry wt	Not given	Downstream of metal inflow. Range of means from 5 sampling areas. Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Tunicate

Tissue	Cases Exposure Route	Range	Mean	General Information
3331 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Turtle, snapping
CHELHYDRA SERPENTINA

Tissue	Cases Exposure Route	Range	Mean	General Information
3333 Adipose	a) 5 b) 4 c) 3	a) 0.002-0.016 mg/kg b) 0.006-0.016 mg/kg c) 0.004-0.025 mg/kg	a) 0.008 mg/kg b) 0.011 mg/kg c) 0.011 mg/kg	a) St. Paul b) Prairie Island c) Lake City Red meat, <0.05-0.68% lipid. Length 5.5-15 in., wt 1.8-21.8 lb, estimated age 3->20 yr Minnesota, Mississippi River
TURTLES; CADMIUM; MERCURY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; ADIPOSE TISSUE; MUSCLES; MINNESOTA Heinig, D.D.; Hora, M.E. 1983 Bulletin of Environmental Contamination and Toxicology 30:186-190				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Vole, meadow
MICROTUS PENNSYLVANICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3333 Kidney	a) 7-12 b) 7-14 c) 12 d) 13 e) 8-13 f) 10-15 g) 15 h) 23	a) 0.56-0.90 ug/g b) 0.50-1.06 ug/g c) Not given d) Not given e) 0.20-0.57 ug/g f) 0.47-0.38 ug/g g) Not given h) Not given Wet wt	a) Not applicable b) Not applicable c) 4.76 ug/g d) 9.34 ug/g e) Not applicable f) Not applicable g) 3.41 ug/g h) 6.27 Wet wt	a) Enclosures in control and fertilizer treated fields in 2nd yr of succession, 1980 b) Same enclosures, yr later c) Enclosure in 2 yr old field treated with sewage sludge, 8960 kg/ha/yr d) Same enclosure, yr later e) Enclosures in 6 yr old fields, control and fertilizer treated, 1980 f) Same enclosures, yr later g) Enclosure in 6 yr old field treated with sewage sludge, 1980 h) Same enclosure, yr later Ranges of means. Ohio, Oxford, Bachelor Wildlife Reserve AAS
3334 Liver	a) 19-24 b) 17-29 c) 25 d) 30 e) 23-37 f) 20-37 g) 45 h) 52	a) 0.05-0.13 b) 0.08-0.31 c) Not given d) Not given e) 0.06-0.06 f) 0.16-0.14 g) Not given h) Not given ug/g Wet wt	a) Not applicable b) Not applicable c) 1.19 d) 1.82 e) Not applicable f) Not applicable g) 0.70 h) 1.24 ug/g Wet wt	a) Enclosures in control and fertilizer treated fields in 2nd yr of succession, 1980 b) Same enclosures, yr later c) Enclosure in 2 yr old field treated with sewage sludge, 8960 kg/ha/yr d) Same enclosure, yr later e) Enclosures in 6 yr old fields, control and fertilizer treated, 1980 f) Same enclosures, yr later g) Enclosure in 6 yr old field treated with sewage sludge, 1980 h) Same enclosure, yr later Ranges of means. Ohio, Oxford, Bachelor Wildlife Reserve AAS

LIVER; KIDNEYS; VOLES; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; OHIO; CADMIUM; METALS; LAND POLLUTION; ANIMAL POPULATIONS; TRACE ELEMENTS; BIOACCUMULATION; SEWAGE; SOILS

Maly, M.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:726-731

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Vole, short-tailed field
MICROTUS AGRESTIS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3335 Body	a) 20 b) 21 Ingestion	a) 0.57-1.39 ug/g b) 1.05-3.22 ug/g Dry wt	a) 0.88+/-0.05 ug/g b) 1.84+/-0.12 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3336 Bone	41 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.67+/-0.03 ug/g b) 0.64+/-0.04 ug/g c) 0.59+/-0.03 ug/g d) 0.72+/-0.04 ug/g e) 0.43+/-0.03 ug/g f) 0.69+/-0.06 ug/g g) 0.34+/-0.04 ug/g h) 0.72+/-0.04 ug/g Dry wt S.E.	a) Lower mandible, control site b) Lower mandible, mine site c) Skull, control site d) Skull, mine site e) Femur, control site f) Femur, mine site g) Pelvic girdle, control site h) Pelvic girdle, mine site Revegetated mine waste. Estimated level in control diet 1.21 ug/g dry wt, level in mine diet 4.75 ug/g dry wt. Control area unmanaged grassland distant from pollution sources. Femur and skull levels at mine site significantly greater than controls. England, central AAS
3337 Heart	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 0.74+/-0.06 ug/g b) 1.02+/-0.16 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3338 Kidney	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 1.75+/-0.26 ug/g b) 5.21+/-0.86 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3339 Liver	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 1.14+/-0.15 ug/g b) 1.88+/-0.33 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Vole, short-tailed field
MICROTUS AGRESTIS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3340 Muscle	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 0.32+/-0.03 ug/g b) 1.27+/-0.17 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3341 Teeth	41 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.74+/-0.04 ug/g b) 0.67+/-0.04 ug/g c) 0.55+/-0.03 ug/g d) 0.76+/-0.06 ug/g Dry wt S.E.	a) Incisors, control site b) Incisors, mine site c) Molars, control site d) Molars, mine site Estimated control diet 1.21 ug/g dry wt, mine diet 4.75 ug/g dry wt. Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Molar level at mine site significantly greater than control. England, central AAS

CADMIUM; BIOACCUMULATION; BIOMAGNIFICATION; DIETS; LIVER; KIDNEYS; BONES; MUSCLES; HEART; LAND POLLUTION; INDUSTRIAL POLLUTION; BIOLOGICAL MONITORING; VEGETATION; SHREWS; BODY; TERRESTRIAL; ENGLAND; ENVIRONMENTAL EXPOSURE

Andrews, S.M.; Johnson, M.S.; Cooke, J.A. 1984 Environmental Pollution (Series A) 33:153-163

Whelk, dog

Tissue	Cases Exposure Route	Range	Mean	General Information
3343 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.

BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION

Ray, S. 1984 Experientia 40(1):14-28

Wigeon, American
ANAS AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
3342 Kidney	14 Ingestion	0.77-14.79 ug/g Dry wt	7.73 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Wigeon, American
ANAS AMERICANA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3544 Liver	37 Ingestion	<0.10-3.24 ug/g Dry wt	1.14 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Worm, polychaete

Tissue	Cases Exposure Route	Range	Mean	General Information
3548 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)
58-08-2
C8-H10-N4-O2
MW 194.19, MP 238 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3546 Blood, plasma	10 Injection	a) Not given b) Not given c) Not given d) Not given	a) 5.3 +or- 0.5 ug/ml b) 3.9 +or- 0.6 ug/ml c) 49.7 +or- 3.1 ug/ml d) 36.9 +or- 4.6 ug/ml	a) Maternal, 6.96 mg/kg b) Fetal c) Maternal, 6.96 mg/kg d) Fetal 15 min after infusion. Not detected 48 hr after infusion. Pregnant crossbred ewes, fetal gestational stage 109-120 days Slight reduction in uterine blood flow. Significant maternal and fetal tachycardia at higher dose UV
SHEEP; NEW YORK; ADULTS; FETUS; BLOOD SERUM; BIOACCUMULATION; HEALTH HAZARDS; PREGNANCY; CAFFEINE Wilson, S.J.; Ayromlooi, J.; Errick, J.K. 1983 Obstetrics and Gynecology 61(4):486-492				

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Beaver
CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3347 Intestine	4 Ingestion	Not given	413+/-138 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3348 Kidney	4 Ingestion	Not given	126+/-17 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3349 Liver	4 Ingestion	Not given	109+/-30 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3350 Muscle	4 Ingestion	Not given	60+/-31 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1986 Science of the Total Environment 54:177-184				

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3351 Blood, plasma	a) 5 b) 6 Ingestion	a) 2.5-2.5 mmol/l b) 2.5-2.4 mmol/l	a) Not applicable b) Not applicable	a) 12 d before-6 d after parturition, trough (1.5 mmol/l) on d of parturition after 120 g/d for 5-14 d before calving b) 12 d before-6 d after parturition, trough (2.5 mmol/l) 2 d after parturition, after 55 g/d for 5-14 d before calving Low Ca diet during final weeks of pregnancy reduces likelihood of parturient paresis. France AAS
BLOOD PLASMA; DELIBERATE EXPOSURE; CATTLE; FRANCE; TERRESTRIAL; ADULTS; NUTRITIONAL DISORDERS; CALCIUM; MINERALS; DIETS; ANIMAL FEEDS; LACTATION; BIOACCUMULATION; MINERAL METABOLISM; PREGNANCY Barlet, J.-P.; Rose, R. 1986 British Veterinary Journal 140:392-397				

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 982 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3352 Blood, plasma	1 Ingestion	a) 2.4-2.4 mmol/l b) 2.4-2.5 mmol/l	a) Not applicable b) Not applicable	a) 1-8 d, steady state (2.4-2.2 mmol/l) 1-4 d, trough (1.9 mmol/l) 5-85 hr after Ca stress induction, return to steady state after resumption of 100 g/d b) 1-8 d, peak (2.8 mmol/l) 2 d after 200 ug 1,25-Dihydroxycholecalciferol, trough (1.9 mmol/l) at end of Ca stress, return to steady state after resumption of 100 g/d Ca stress induced by withdrawal of 100 g/d intra-abomasal infusion Ca-acetate for 35 hr. Prior stimulation of Ca absorption does not prevent rapid onset of hypocalcemia. Norway AAS
BLOOD PLASMA; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; NORWAY; NUTRITIONAL DEFICIENCIES; CALCIUM; BIOACCUMULATION; MINERAL METABOLISM; LACTATION; ANIMAL FEEDS; FOOD ADDITIVES; DRUGS; DRUG THERAPY Hove, K.; Hilde B.L. 1984 Canadian Journal of Animal Science 64:227-228				

Tissue	Cases Exposure Route	Range	Mean	General Information
3353 Blood, serum	106	a) Not given b) Not given	a) 6.06+/-0.25 mg/dl b) 6.06+/-0.20 mg/dl S.E.	a) Controls, no uterine prolapse b) Uterine prolapse Significant difference $p<0.01$ California Multichannel analyser
BLOOD SERUM; CATTLE; TERRESTRIAL; CALIFORNIA; ENVIRONMENTAL EXPOSURE; CALCIUM; BIOACCUMULATION; MINERAL METABOLISM Risco, C.A.; Reynolds, J.P.; Hird, D. 1984 Journal of American Veterinary Medical Association 185(12):1517-1519				

Tissue	Cases Exposure Route	Range	Mean	General Information
3354 Milk		Not given	1080 mg/l	Normal cow's milk used in bioavailability study with humans. Sweden AAS
DIETS; CATTLE; ZINC; CALCIUM; MILK; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; TERRESTRIAL Lonnerdal, B.; Cederblad, A.; Davidson, L.; Sandstrom, B. 1984 American Journal of Clinical Nutrition 40:1064-1070				

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 982 C

Chicken, white leghorn
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3355 Blood, plasma	Ingestion	a) Not given b) Not given	a) 7.7+/-0.4X10(E-3) M b) 8.3+/-0.4X10(E-3) M	a) Controls b) After 45 d exposure to 40 mg/kg p,p'-DDE. Sweden AAS
3356 Eggshell gland	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 450 ug/gland b) 475 ug/gland c) 1.5 mg/gland d) 1.45 mg/gland Dry wt	a) Fluid, controls b) Fluid, treatment c) Mucosa, controls d) Mucosa, treatment Treatment was 45 d exposure to 40 mg/kg p,p'-DDE. Estimated from chart. Sweden AAS

BLOOD PLASMA; EGGSHELL GLAND; WATERFOWL; CHICKENS; AQUATIC; TERRESTRIAL; DELIBERATE EXPOSURE; SWEDEN; DDE; CALCIUM; BIOACCUMULATION; PESTICIDE RESIDUES

Lundholm, C.E. 1984 Acta Pharmacologica and Toxicologica 54:400-407

Cod, pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3357 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 108+/-24 ug/g b) 113+/-26 ug/g c) 133+/-43 ug/g d) 11.3+/-2.70 mg/100 g e) 118+/-14 ug/g f) 107+/-13 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2625+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-640 g c) Cape Ommaney, AK, 11 fish, 706+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Considered low level. No significant differences e), f) in distribution of element. Slightly higher levels in nape indicated differential distribution. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 982 C

Deer, white-tailed
ODOCOILEUS VIRGINIANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2258 Blood, plasma	4 Injection	a) 10.3+/-0.08-11.1+/-0.09 mg/100 mL b) 10.3+/-0.08-10.7+/-0.09 mg/100 mL c) 8.8+/-0.10-10.3+/-0.08 mg/100 mL S.E.	a) 10.7+/-0.21 mg/100 mL b) 10.5+/-0.09 mg/100 mL c) 9.7+/-0.36 mg/100 mL S.E.	a) Trial 1, 2/8-2/15, after velvet shedding, before antler growth b) Trial 2, 5/26-6/5, after about a month of slow antler growth c) Trial 3, 8/18-8/28, shortly before velvet shedding, near end of antler growth Dosed with 2 ml of Ca-47Cl2, in metabolism crates to study kinetics and balance and estimate absorption. Ranges of means. Texas AAS
BLOOD PLASMA; DEER; TERRESTRIAL; DELIBERATE EXPOSURE; TEXAS; CALCIUM; BONE DISEASES; MINERAL METABOLISM Stephenson, D.C.; Brown, R.D. 1984 Journal of Nutrition 114:1014-1024				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
2260 Blood, plasma	Ingestion	a) Not given b) Not given	a) 10.6+/-0.5X10(E-3) M b) 10.3+/-0.5X10(E-3) M	a) Controls b) After 45 d exposure to 40 mg/kg p,p'-DDE. Sweden AAS
2260 Eggshell gland	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 540 ug/gland b) 350 ug/gland c) 0.8 mg/gland d) 0.9 mg/gland Dry wt	a) Fluid, controls b) Fluid, treatment c) Mucosa, controls d) Mucosa, treatment Treatment was 45 d exposure to 40 mg/kg p,p'-DDE. Estimated from chart. Sweden AAS
BLOOD PLASMA; EGGSHELL GLAND; WATERFOWL; CHICKENS; AQUATIC; TERRESTRIAL; DELIBERATE EXPOSURE; SWEDEN; DDE; CALCIUM; BIOACCUMULATION; PESTICIDE RESIDUES Lundholm, C.E. 1984 Acta Pharmacologica and Toxicologica 54:400-407				

Calcium

7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 982 C

Lizard, water
TRITURUS PYRRHOGASTER

Tissue	Cases Exposure Route	Range	Mean	General Information
8861 Kidney	a) 5 b) 5 Injection	a) Not given b) Not given	a) 88.2+/-2.6 ug/g b) 86.6+/-10.0 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Kidney wt 36+/-8-43+/-6 mg ES
8862 Liver	a) 5 b) 5 Injection	a) Not given b) Not given	a) 29.9+/-2.5 ug/g b) 32.4+/-2.3 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Liver wt 349+/-108-411+/-80 mg ES
AMPHIBIANS; LIVER; KIDNEYS; DELIBERATE EXPOSURE; CADMIUM; COPPER; ZINC; AQUATIC; TERRESTRIAL; IRON; MAGNESIUM; CALCIUM; PHOSPHORUS Suzuki, K.T.; Ahitomi, H.; Kawamura, R. 1984 Toxicology Letters 21:179-184				

Mackerel, Atka
PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8868 Muscle	20 Ingestion	Not given	141+/-30 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/- 156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8864 Intestine	4 Ingestion	Not given	359+/-209 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
8865 Kidney	4 Ingestion	Not given	106+/-47 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

(next page)

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 988 C

Otter
LUTRA CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
5366 Liver	4 Ingestion	Not given	90+/-35 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
5367 Muscle	4 Ingestion	Not given	72+/-32 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1986 Science of the Total Environment 54:177-184				

Pollock, walleye
THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
5368 Muscle	Ingestion	a) Not given b) Not ;given c) Not given d) Not given	a) 130+/-35 ug/g b) 90+/-32 ug/g c) 142+/-34 ug/g d) 12.6+/-5.2 mg/100 g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 528+/-228 g d) Overall mean, combined sites Considered low levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1986 Journal of Agricultural and Food Chemistry 32:852-855				

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
5369 Muscle	26 Ingestion	Not given	88+/-35 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1986 Journal of Agricultural and Food Chemistry 32:852-855				

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3870 Kidney	4 Ingestion	Not given	175+/-125 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tudenac Lake E8
3871 Liver	4 Ingestion	Not given	88+/-7 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tudenac Lake E8
3872 Muscle	4 Ingestion	Not given	54+/-2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tudenac Lake E8
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3878 Muscle	18 Ingestion	Not given	144+/-36 ug/g Wet wt	Near Seaside, OR. Mean wt 1080+/-251 g Pacific Ocean E8
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Tracy, P.M.; Geraghty, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 988 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8876 Blood, plasma	4 Intraruminal	a) 10.0-10.2 mg b) 10.0-10.3 mg c) 10.1-10.2 mg d) 9.8-10.3 mg /100 ml Range of means	a) Not given b) Not given c) Not given d) Not given	a) Controls, 0 time, 500 ml water, thermoneutral (20 C) temperature b) Water, exposure to cold (0-5C) c) 1.5 g/kg KCl, thermoneutral temperature d) 1.5 g/kg KCl, cold temperature Measurements from 4 animals at 0, 1, 2, 3, 4 hr after treatment. Crossbred wethers avg 30.4+/-4.8 kg body wt were fed a low-Mg diet (MgO, 16.6 mg/kg) at 1.5% of body wt once daily. Each subjected to 4 treatments in a 4x4 Latin square design. AAS

SHEEP; MAGNESIUM; BLOOD PLASMA; TERRESTRIAL; DELIBERATE EXPOSURE; UNITED STATES; NUTRITIONAL DEFICIENCIES; COMPARATIVE EVALUATIONS; DIETS; POTASSIUM; CALCIUM

Terashima, Y.; Tucker, R.E.; Deets, L.E.; Muntifering, R.B.; Mitchell, G.E., Jr. 1984 Nutrition Reports International 29(4):869-875

Tissue	Cases Exposure Route	Range	Mean	General Information
8875 Blood, serum	a) 16 b) 16 c) 16	a) Not given b) Not given c) Not given	a) 10.7 mg/dl b) 10.6 mg/dl c) 10.8 mg/dl +/-0.1 S.E.	Lambs whose dams had basal diet fortified with cottonseed meal for 2 yr b) Same as a), basal diet plus 7% undigested sewage solids c) Same as a), basal diet Did not differ from controls. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 29(1):11-21

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
8876 Alimentary canal	Ingestion	a) Not given b) Not given	a) 1100+/-130 ug/g b) 1240+/-294 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 983 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3377 Fat body	Ingestion	a) Not given b) Not given	a) 801+/-80 ug/g b) 271+/-16 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3378 Gonads	Ingestion	a) Not given b) Not given	a) 576 ug/g b) 292 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3379 Head	Ingestion	a) Not given b) Not given	a) 2210+/-179 ug/g b) 2410+/-217 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3380 Integument	Ingestion	a) Not given b) Not given	a) 480+/-82 ug/g b) 935+/-174 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3381 Malpighian tubes	Ingestion	a) Not given b) Not given	a) 75,400+/-8360 ug/g b) 98,600+/-17,400 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3382 Silk gland	Ingestion	a) Not given b) Not given	a) 2000+/-163 ug/g b) 2130+/-222 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 982 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3363 Trachea	Ingestion	a) Not given b) Not given	a) 962+/-17 ug/g b) 1340+/-440 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253				

Snail
LYMNAEA VULGARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3364 Body	a) 20 b) 20	a) Not given b) Not given	a) 1257.68+/-306.89 b) 783.28+/-240.99 Units not stated, presumed CPM/mg	a) Control b) Exposed Controls in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45. Exposed in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45 plus 0.015 ppm alkyl benzene sulfonate (detergent). 37.72% decrease ($p<0.001$) Scintillation counting
3365 Shell	a) 20 b) 20 c) 20 d) 20	a) Not given b) Not given c) Not given d) Not given	a) 74.75+/-35.89 b) 81.5+/-34.88 c) 902.07+/-270.04 d) 801.47+/-203.81 Units not stated, presumed CPM/mg	a) Controls, empty dried shells b) Exposed c) Controls, shells with living animals d) Exposed Controls in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45. Exposed in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45 plus 0.015 ppm alkyl benzene sulfonate (detergent). 34.43% decrease c) to d) Scintillation counting
BODY; SNAILS; DELIBERATE EXPOSURE; AQUATIC; INDIA; CALCIUM; WATER POLLUTION; SHELL Misra, V.; Lal, H.; Viswanathan, P.N.; Murti, C.R.K. 1984 Ecotoxicology and Environmental Safety 8:87-90				

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 982 C

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
5884 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 115+/-24 ug/g b) 119+/-13 ug/g c) 202+/-34 ug/g d) 18.3+/-4.70 mg/100 g Wet wt	a) Caught near Newport, OR, 20 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Considered low level. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gangitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 848 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3367 Milk	60 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.07 % b) 0.09 % c) 0.08 % d) 0.07 % e) 0.21 % f) 0.22 % g) 0.22 % h) 0.24 %	a) Colostrum, no dietary supplement b) Colostrum, 50 ppm Zn c) Colostrum, 500 ppm Zn d) Colostrum, 5000 ppm Zn e) After 3 wk of lactation, no dietary supplement f) After 3 wk of lactation, 50 ppm Zn g) After 3 wk of lactation, 500 ppm Zn h) After 3 wk of lactation, 5000 ppm Zn Crossbred and pure Yorkshire gilts, mean pretreatment wt 80 kg AAS
SWINE; COLOSTRUM; MILK; CALCIUM; COPPER; IRON; MAGNESIUM; MINERALS; PHOSPHORUS; ZINC; ANIMAL FEEDS; DIETS; LACTATION Hill, G.M.; Miller, E.R.; Ku, P.K. 1985 Journal of Animal Science 57(1):125-130				

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3288 Blood, plasma	a) 6-0 b) 6-0 c) 6-0 Ingestion	a) Not given b) Not given c) Not given	a) 0.7+/-0.2 mg/ml b) 0.7+/-0.5 mg/ml c) 0.6+/-0.4 mg/ml	a) Controls 0.6 ug Se/g in diet b) 6.6 ug Se/g diet (some added as Na-selenite) c) 11.4 ug Se/g diet (some added as Na-selenite) Diets consumed for 16 wk Initial body wt 0.6+/-0.1 g. Juveniles. Canada, Ontario Calcitometry
3289 Kidney	60 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.44+/-0.06 mg/g b) 0.55+/-0.26 mg/g c) 1.92+/-1.05 mg/g d) 15.88+/-5.07 mg/g Dry wt	a) Controls 0.6 ug Se/g in diet b) 6.6 ug Se/g diet (some added as Na-selenite) c) 11.4 ug Se/g diet (some added as Na-selenite) d) Same diet as c) but developed overt lesions of nephrocalcinosis Diets consumed for 24 wk. Initial body wt 0.6+/-0.1 g. Juveniles. c) & d) had significantly higher levels. Canada, Ontario Nephrocalcinosis, chalky deposits, swelling of kidneys and significantly higher Ca + Mg levels in kidneys than others on same diet. AAS
3290 Liver	60 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.15+/-0.02 mg/g b) 0.23+/-0.01 mg/g c) 0.36+/-0.01 mg/g d) 0.24+/-0.01 mg/g Dry wt	a) Controls 0.6 ug Se/g in diet b) 6.6 ug Se/g diet (some added as Na-selenite) c) 11.4 ug Se/g diet (some added as Na-selenite) d) Same diet as c) but developed overt lesions of nephrocalcinosis Diets consumed for 24 wk. Initial body weight 0.6+/- 0.1 g. Juveniles. Canada, Ontario AAS
LIVER; KIDNEYS; FISHES; SELENIUM; CALCIUM; DIETS; MAGNESIUM; CANADA; BLOOD PLASMA; AQUATIC; DELIBERATE EXPOSURE Hicks, B.D.; Hilton, J.W.; Ferguson, H.W. 1984 Journal of Fish Diseases 7:379-389				

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 982 C

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3391 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 92+/-16 ug/g b) 104+/-24 ug/g Wet wt	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gaugiltz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester
43210-67-9
C15-H13-N3-O2-S
MW 299.35, MP 233 (decomp)

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3392 Blood, plasma	36 Ingestion	a) 0.2-0.5 ug/ml b) 0.16-0.3 ug/ml c) 0.16-0 ug/ml d) 0.10-0 ug/ml	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 24-144 hrs, peak (0.6 ug/ml) 120 hrs, free access of feed blocks with 450 g/ton b) Oxfendazole metabolite, 24-144 hrs, peak (0.3 ug/ml) 120 hrs, free access of feed blocks with 450 g/ton c) 0-144 hrs, peak (0.18 ug/ml) 24 hrs after 5 mg/kg oral suspension d) Oxfendazole metabolite, 0-144 hrs, peak (0.10 ug/ml) 24 hrs after 5 mg/kg oral suspension Estimated from graph. Scotland HPLC
BLOOD PLASMA; DELIBERATE EXPOSURE; ADULTS; SHEEP; SCOTLAND; ANTIHELMINTICS; DRUGS; DRUG THERAPY; ANIMAL FEEDS; BIOACCUMULATION; FOOD ADDITIVES; AGRICULTURE; METABOLITES; TERRESTRIAL Rogan, J.A.; Marriner, S.E. 1988 British Veterinary Journal 130:223-227				

Carbon, isotope of mass 14
14762-75-5
C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3393 Blood, plasma	13 Injection	50-50 cpm/ml	Not applicable	0.5-48 hr, peak (400 cpm/ml) 10 hr after 5 mg as Na [Fe-55] [C-14] EDTA complex. Venezuela Scintillation counting
3394 Intestine	a) 1 b) 1 c) 1 d) 1 e) 1 f) 1 g) 1 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 2000 cpm/100 mg b) 4000 cpm/100 mg c) 5000 cpm/100 mg d) 5500 cpm/100 mg e) 5000 cpm/100 mg f) 5000 cpm/100 mg g) 1500 cpm/100 mg	a) 1 hr, 0.5 m b) 1 hr, 3.0 m c) 1 hr, 6.0 m d) 1 hr, 8.0 m e) 2 hr, 5.0 m f) 2 hr, 6.0 m g) 5 hr, 0.5 m Areas of maximal activity of mucosal layer at locations along jejunum after 56 mg Na[Fe-55] [C-14] EDTA complex. Estimated from graph. Venezuela Scintillation counting
3395 Stomach	a) 1 b) 1 c) 1 d) 1 e) 1 f) 1 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 7500 cpm/100 mg b) 3000 cpm/100 mg c) 2000 cpm/100 mg d) 500 cpm/100 mg e) Not detected f) 500 cpm/100 mg	a) 1 hr, fundus b) 1 hr pylorus c) 2 hr fundus d) 2 hr pylorus e) 5 hr, fundus f) 5 hr, pylorus Activity of mucosal layer at two locations after 56 mg of Na [Fe-55] [C-14] EDTA complex. Estimated from graph. Venezuela Scintillation counting
3396 Urine	13 Injection	Not given	5.4+/-0.5%	% dose recovered 48 hr after 5 mg as Na [Fe-55] [C-14] EDTA complex. Venezuela Scintillation counting

STOMACH; INTESTINES; BLOOD PLASMA; URINE; SWINE; TERRESTRIAL; DELIBERATE EXPOSURE; VENEZUELA; IRON; BIOACCUMULATION; RADIONUCLIDES; DRUGS

Candela, E.; Camacho, M.V.; Marinco-Torres, C.; Perdomo, J.; Mazzarri, G.; Acurero, G.; Layrisse, M. 1984 Journal of Nutrition 114:2204-2211

Cerium
7440-45-1
Ce
AtW 140.12, MP 795 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3207 Hair	Ingestion	Not given	0.074 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; POOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1986 Science of the Total Environment 50:135-142				

Cesium
7440-46-2
Cs
AtW 132.9054, MP 28.5 C, BP 705 C, VP 1 mm Hg at 270 C, 10 mm Hg at 378 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3208 Hair	Ingestion	Not given	0.010 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; POOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1986 Science of the Total Environment 50:135-142				

Deer, male
ODOCOILEUS HEMIONUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3209 Liver	a) 9 b) 3 c) 6	a) 0.01-0.05 pCi/g b) 1.01-12.00 pCi/g c) 0.01-0.09 pCi/g	a) Not given b) Not given c) Not given	a) Known residence history near Hanford site waste ponds b) From same area as a), with possible fallout from weapons test by Chinese in 1980 c) Known residence history isolated from Hanford waste ponds d) Residence history of habitation uniformly throughout Hanford site Significant positive correlation between percent of time in radiation zones associated with waste-management ponds and radionuclide content. a) significantly higher than c). Washington, Hanford Ge detector

(next page)

Cesium
7440-46-2
Cs
AtW 132.9054, MP 28.5 C, BP 705 C, VP 1 mm Hg at 270 C, 10 mm Hg at 378 C

Deer, mule
ODOCOILEUS HEMIONUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3400 Rumen	a) 9 b) 5 c) 5	a) 0.04-0.16 pCi/g b) 1.09-16.32 pCi/g c) 0.06-0.16 pCi/g	a) Not given b) Not given c) Not given	a) Known residence history near Hanford site waste ponds b) From same area as a), with possible fallout from weapons test by Chinese in 1980 c) Known residence history isolated from Hanford waste ponds. Washington, Hanford Ge detector
BONES; MUSCLES; LIVER; STOMACH; DEER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; WASHINGTON; CESIUM; STRONTIUM; FALLOUT; BIOLOGICAL MONITORING; LAND POLLUTION; AIR POLLUTION; WATER POLLUTION; RADIONUCLIDES Eberhardt, L.E.; Cadwell, L.L.; Hanson, E.E. 1984 Health Physics 47(5):755-759				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 270 C, 10 mm Hg at 378 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3401 Milk		a) 0.48-0.6 Bq/l b) 0.96-1.4 Bq/l c) 0.48-1.0 Bq/l d) 2.27-3.3 Bq/l	a) Not given b) Not given c) Not given d) Not given	a) <=1.5 km from center of Sellafield Works, nuclear fuel reprocessing plant b) Approx 300 m from River Irt (tidal flooding in exceptional conditions) c) Approx 400 m from River Esk (not subject to tidal flooding) d) <300 m from River Esk (regular tidal flooding) Collected 1979-82, late summer. b)-d) 2-3.5 km from Ravenglass Estuary. United Kingdom, West Cumbria Gamma counting
MILK; TERRESTRIAL; CATTLE; LACTATION; RADIONUCLIDES; WATER POLLUTION; STRONTIUM; CESIUM; PLUTONIUM; RABBITS Curtis, E.J.C.; Bradford, W.R.; Popplewell, D.S. 1984 Science of the Total Environment 35:267-283				

Tissue	Cases Exposure Route	Range	Mean	General Information
3402 Milk		1.5-4.5 Bq/l	Not given	6 l from bulk tank after morning milking at midpoint of each month, 1981. Cattle at dairy 2 km from Sellafield Nuclear Fuel Reprocessing Plant. United Kingdom, Cumbria, Sellafield Beta counting
MILK; CATTLE; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; RADIONUCLIDES; CESIUM; STRONTIUM; LACTATION Sumerling, T.J.; Dodd, N.J.; Green, N. 1984 Science of the Total Environment 34:57-73				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 270 C, 10 mm Hg at 375 C

Chamois
RUPICAPRA RUPICAPRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3408 Liver	16 Ingestion	</=28-286 pCi/kg Wet wt	151 pCi /kg Median Wet wt	Collected from area 80 km south of Munich, Germany, specimens approximately 10 yr old. Germany Ge/Li detection

LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION
Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470

Chicken
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3404 Liver	9 Ingestion	Not applicable	</=12+/-3 pCi/kg Median Wet wt	Approximately 0.5 yr old, collected from farms near Munich. Germany GE/Li detection

LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION
Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470

Deer, mule
ODOCOILEUS HEMIONUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3405 Muscle	a) 9 b) 8 c) 5 d) 88	a) 0.06-0.24 pCi/g b) 1.75-3.45 pCi/g c) 0.03-0.04 pCi/g d) Not given	a) 0.10 pCi/g b) Not given c) 0.04 pCi/g d) 1.95 pCi/g	a) Known residence history near Hanford site waste ponds b) From same area as a), with possible fallout from weapons test by Chinese in 1980 c) Known residence history isolated from Hanford waste ponds d) Residence history of habitation uniformly throughout Hanford site Significant positive correlation between percent of time in radiation zones associated with waste-management ponds and radionuclide content. a), b) significantly different. Washington, Hanford Ge detector

BONES; MUSCLES; LIVER; STOMACH; DEER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; WASHINGTON; CESIUM; STRONTIUM; FALLOUT; BIOLOGICAL MONITORING; LAND POLLUTION; AIR POLLUTION; WATER POLLUTION; RADIONUCLIDES
Eberhardt, L.E.; Cadwell, L.L.; Hanson, E.E. 1984 Health Physics 47(5):755-759

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 706 C, VP 1 mm Hg at 270 C, 10 mm Hg at 375 C

Deer, roe

Tissue	Cases Exposure Route	Range	Mean	General Information
3406 Liver	18 Ingestion	</=24-97 pCi/kg Wet wt	</=87 pCi/kg Median Wet wt	Approximately 2 yr old, collected in Lower Bavaria. Germany Ge/Li detection
LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):465-470				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3407 Liver	22 Ingestion	1500-250 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 10 approx 4300 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3408 Lung	22 Ingestion	950-200 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 15 approx 2000 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3409 Muscle	22 Ingestion	2500-600 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 16 approx 11,000 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
BIRDS; WATERFOWL; AQUATIC; DELIBERATE EXPOSURE; MUSCLES; LIVER; LUNGS; BONES; BRAIN; KIDNEYS; COBALT; CESIUM; RADIONUCLIDES Konings, J.; Kirchmann, R.; Gerber, G.B.; Van Bruwaene, R.; Colard, J. 1984 Health Physics 46(3):681-684				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3410 Kidney	a) 20 b) 10 Ingestion	a) 110-280 Bq/kg b) 75-163 Bq/kg Wet wt	a) 170 Bq/kg b) 116 Bq/kg Wet wt Median	a) Males and females <1 yr old b) Females 0.5-7.5 yr old Levels inversely correlated with age. West Germany, Lueneburg heath Spectrometry
3411 Liver	a) 20 b) 10 Ingestion	a) 64-140 Bq/kg b) 36-87 Bq/kg Wet wt	a) 82.5 Bq/kg b) 61.1 Bq/kg Wet wt Medians	a) Males and females <1 yr old b) Females 0.5-7.5 yr old Levels inversely correlated with age. West Germany, Lueneburg heath Spectrometry
LAND POLLUTION; ENVIRONMENTAL EXPOSURE; AIR POLLUTION; SHEEP; GERMANY; TERRESTRIAL; BIOLOGICAL MONITORING; LIVER; KIDNEYS; MUSCLES; BIOACCUMULATION; BIOCONCENTRATION; JUVENILES; ADULTS; SEX; RADIONUCLIDES; LEAD; CESIUM; POLONIUM; POTASSIUM; FOOD CONTAMINATION; FALL-OUT Bunzl, K.; Kracke, W. 1984 Science of the Total Environment 39:143-150				

Tissue	Cases Exposure Route	Range	Mean	General Information
3412 Liver	a) 22 b) 20 c) 10 Ingestion	a) 1740-6640 pCi/kg b) 151-1910 pCi/kg c) <14-490 pCi/kg Wet wt	a) 3690 pCi/kg b) 1300 pCi/kg c) 46 pCi/kg Medians Wet wt	a) North German moorland, 0.5-1.5 yr old b) North German moorland, 2-6 yr old c) Domestic, 1 yr old. Germany GE/Li detection
LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470				

Tissue	Cases Exposure Route	Range	Mean	General Information
3413 Muscle	a) 14 b) 26 Ingestion	a) 100-256 Bq/kg b) 66-151 Bq/kg Wet wt	a) 162 Bq/kg b) 116 Bq/kg Wet wt Medians	a) Males <1 yr old b) Females 0.5-7.5 yr old Significant difference by sex, males higher levels. Naturally occurring and fallout radionuclides. West Germany, Lueneburg heath
LAND POLLUTION; ENVIRONMENTAL EXPOSURE; AIR POLLUTION; SHEEP; GERMANY; TERRESTRIAL; BIOLOGICAL MONITORING; LIVER; KIDNEYS; MUSCLES; BIOACCUMULATION; BIOCONCENTRATION; JUVENILES; ADULTS; SEX; RADIONUCLIDES; LEAD; CESIUM; POLONIUM; POTASSIUM; FOOD CONTAMINATION; FALL-OUT Bunzl, K.; Kracke, W. 1984 Science of the Total Environment 39:143-150				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 270 C, 10 mm Hg at 378 C

Turkey
MELEAGRIS GALLOPAVO

Tissue	Cases Exposure Route	Range	Mean	General Information
3414 Liver	7 Ingestion	Not applicable	<=10+/-2 pCi/kg Median Wet wt	Approximately 0.5 yr old, collected from farms near Munich. Germany GE/LI

LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION
Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470

Chlordane
12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3415 Milk	Ingestion	a) 0.04-0.06 ppm b) 0.05-0.01 ppm c) 0.03-<=0.001 ppm d) 0.01-0.01 ppm e) 0.03-0.06 ppm	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 1972-73 b) 1974-75 c) 1976-77 d) 1978-79 e) 1980-81 Range of yearly means. Composite samples from several farms. Levels constant over 10 yr. In statewide monitoring for chlorinated hydrocarbon insecticides, percentage contaminated samples decreased over study period. Illinois GC/MS

INSECTICIDES; PESTICIDE RESIDUES; MILK; CATTLE; ILLINOIS; BIOLOGICAL MONITORING; BIOCONCENTRATION; ALDRIN; DIELDRIN; DDT; METABOLITES; HEPTACHLOR EPOXIDE; TERRESTRIAL; CHLORINATED HYDROCARBONS; ENVIRONMENTAL EXPOSURE; HEXACHLOROCYCLOHEXANE
Steffey, K.L.; Mack, J.; MacDonegle, C.W.; Pettyl, H.B. 1984 Journal of Environmental Science and Health B19(1):69-85

Clam

Tissue	Cases Exposure Route	Range	Mean	General Information
3416 Body		a) Not given b) Not given	a) <0.05 ng/g b) 1.8 ng/g	a) Site 1 b) Site 2 Collected 11/80. Pooled whole clams, mean sample wt 80 g Maine, Portland GC-EC

MAINE; BODY; DDT; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; PENTACHLOROPHENOL; PHTHALATES; BIOACCUMULATION; MOLLUSKS; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS
Ray, L.B.; Murray, H.B.; Giam, C.S. 1983 Chemosphere 12(7/8):1081-1088

Chlordane

12789-03-6
C10-H6-Cl6
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
5417 Body, whole	9	16-66 ug/kg Dry wt	31 ug/kg Dry wt Median	Trend in concentration increase from inorganic to organic to living material. August 1979-May 1980, sampling dates. Non-point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River GC-EC
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-460				

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
5418 Body	a) 218 b) 186 c) 96 d) 262 e) 370 Ingestion	a) Not detected-0.060 ug/g b) 0.006-0.040 ug/g c) 0.010-0.070 ug/g d) Not detected-0.030 ug/g e) 0.002-0.060 ug/g Wet wt	a) 0.016 ug/g b) 0.020 ug/g c) 0.032 ug/g d) 0.018 ug/g e) 0.020 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC
CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE Bloomberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):675-686				

Chlordane
12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 3 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
5419 Body	a) 26 b) 7 c) 16 d) 118 e) 84 Ingestion	a) Not detected-0.020 ug/g b) 0.006-0.040 ug/g c) 0.010-0.070 ug/g d) Not detected-0.060 ug/g e) 0.020-0.050 ug/g Wet wt	a) 0.010 ug/g b) 0.020 ug/g c) 0.023 ug/g d) 0.015 ug/g e) 0.030 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for organochlorine residues in shellfish 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation. Maryland, Chesapeake Bay area, tributaries GO-BO

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE
Bloomberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):675-686

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
5420 Body	a) 8 b) 9 c) 22 Ingestion	a) Not detected-0.020 ug/g b) Not detected-0.020 ug/g c) Not detected-0.020 ug/g Wet wt	a) Not detected b) 0.012 ug/g c) 0.020 ug/g Wet wt	a) 1976 b) 1979 c) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small (none 1978), mostly in 1979-1980, not possible to see yearly trend. Data not available 1977. Maryland, Chesapeake Bay area, tributaries GO-BO

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE
Bloomberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):675-686

Chlordane
12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
3431 Adipose	a) 135 b) 16 c) 20 Ingestion	a) Not detected-0.077 mg/kg b) Not detected-0.028 mg/kg c) 0.017-0.152 mg/kg Wet wt	a) 0.017 mg/kg b) 0.004 mg/kg c) 0.066 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE

Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Loon, common
GAVIA IMMER

Tissue	Cases Exposure Route	Range	Mean	General Information
3422 Adipose	11	Not given	5.94+/-4.56 ug/g Wet wt	Unknown condition, collected in 1969, 82.0+/-13.1% fat Residues consisted of cis- and trans-chlordane and nonachlor. Tissues with high fat content contained higher levels. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3423 Brain	a) 11 b) 38 c) 1	a) Not given b) Not given c) Not given	a) 0.06+/-0.07 ug/g b) <0.01 ug/g c) 0.04 ug/g Wet wt	a) Unknown condition, collected in 1969, 7.76+/-1.12% fat b) Healthy, collected in 1978-79, 6.16+/-0.58% fat c) Emaciated, collected in 1978-79, 7.13% fat Residues consisted of cis- and trans-chlordane and nonachlor. Tissues with high fat content contained higher levels. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3424 Embryos	a) 12 b) 19	a) Not given b) Not given	a) 0.05+/-0.02 ug/g b) 0.21+/-0.13 ug/g	a) Collected in 1978 from Algonquin-Parry Sound b) In 1979-80. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3425 Muscle	21	Not given	0.02+/-0.03 ug/g Wet wt	Healthy condition, collected in 1978-79, 2.59+/-1.16% fat. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

EGGS; BRAIN; ADIPOSE TISSUE; LIVER; MUSCLES; FEATHERS; INTESTINES; EMBRYOS; DDT; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; MERCURY; CHLORINE ORGANIC COMPOUNDS; PESTICIDES; PESTICIDE RESIDUES; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; LUNGS; GIZZARD; BLOOD; HEART; KIDNEYS

Frank, R.; Lumsden, H.; Barr, J.F.; Braun, H.E. 1983 Archives of Environmental Contamination and Toxicology 12:641-654

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Oyster, American
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3436 Body	a) 218 b) 136 c) 96 d) 262 e) 379 Ingestion	a) Not detected-0.370 ug/g b) Not detected-0.050 ug/g c) Not detected-0.040 ug/g d) Not detected-0.100 ug/g e) Not detected-0.070 ug/g Wet wt	a) 0.100 ug/g b) 0.020 ug/g c) 0.013 ug/g d) 0.010 ug/g e) 0.010 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. DDT metabolites (DDE,DDD) and chlordane decrease after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Pike
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3437 Liver	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.051+/-0.061 mg/kg b) 0.017+/-0.028 mg/kg c) 0.015+/-0.018 mg/kg Wet wt	a) South Finland lakes b) North Finland lakes c) Baltic Sea Collected at 75 sampling stations 1-4/82. Length 41-72 cm, wt 480-6000 g, 0.51-1.36% fat. Finland GC/MS; GC-EC
3438 Muscle	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.009+/-0.012 mg/kg b) 0.016+/-0.017 mg/kg c) 0.013+/-0.012 mg/kg Wet wt	a) South Finland lakes b) North Finland lakes c) Baltic Sea Collected at 75 sampling stations 1-4/82. Length 41-72 cm, wt 480-6000 g, 0.51-1.36% fat. Finland GC/MS; GC-EC

LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES

Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-843

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3429 Adipose	a) 50 b) 26 c) 20 d) 7 Ingestion	a) Not detected-2.00 mg/kg b) Not detected-0.029 mg/kg c) Not detected-0.034 mg/kg d) 0.048-0.226 mg/kg Wet wt	a) 0.226 mg/kg b) 0.005 mg/kg c) 0.003 mg/kg d) 0.100 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Lake Wabamun, isolated area d) McGregor Lake Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Puffin
FRATERCULA ARCTICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3430 Brain	10 Ingestion	445-1260 ppb	833 ppb	Collected at Hernyken, Rost, 7/82. Norway GC
3431 Liver	21 Ingestion	262-1531 ppb	981 ppb	Collected at Hornoy in 7/82. Norway GC
3432 Uropygial gland	21 Ingestion	48-2815 ppb	1429 ppb	Collected at Hornoy 7/82. Norway GC

LIVER; BRAIN; UROPYGIAL GLAND; EGGS; WATERFOWL; AQUATIC; ENVIRONMENTAL EXPOSURE; NORWAY; ADULTS; JUVENILES; ALDRIN; DDE; HEXACHLOROBENZENE; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; DIELDRIN; PESTICIDES; BIOACCUMULATION; FOOD CONTAMINATION; WATER POLLUTION; INDUSTRIAL POLLUTION; PESTICIDE RESIDUES
Ingebrigtsen, K.; Skaare, J.U.; Teigen, S.W. 1984 Journal of Toxicology and Environmental Health 14:813-826

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Roach
RUTILUS RUTILUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2433 Muscle	11	Not given	0.017+/-0.015 mg/kg Wet wt	Collected at 12 lake sampling stations, 2/82. Length 16-18 cm, wt 48.5-84.0 g, 1.31% fat. Finland GC/MS; GC-EC

LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES

Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842

Sauger
STIZOSTEDION CANADENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
2434 Adipose	a) 28 b) 32 c) 27 Ingestion	a) 0.071-0.868 mg/kg b) 0.220-0.635 mg/kg c) 0.511 mg/kg Wet wt	a) 0.139 mg/kg b) 0.401 mg/kg c) 0.511 mg/kg Wet wt	a) Red Deer River, below city of Red Deer b) South Saskatchewan River c) Oldman River Intestinal fat. Lindane (gamma-BHC), detected in c), widely used pesticide. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE

Chevelon, A.; George, L.; Guiguete, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2435 Adipose	227 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.14+/-0.11 mg/kg b) 0.18+/-0.12 mg/kg c) 0.16+/-0.12 mg/kg d) 0.15+/-0.10 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

(next page)

Chlordane
12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3436 Brain	66 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) Not detected b) Not detected c) 0.00+0.02 mg/kg d) 0.00+/-0.02 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3437 Kidney	92 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) Not detected b) Not detected c) 0.04+/-0.13 mg/kg d) 0.03+/-0.10 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3438 Liver	100 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.00+/-0.01 mg/kg b) Not detected c) 0.09+/-0.34 mg/kg d) 0.00+/-0.01 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3439 Muscle	111 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.00+/-0.01 mg/kg b) Not detected c) 0.08+/-0.21 mg/kg d) 0.04+/-0.21 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

SEALS; CHLORINE ORGANIC COMPOUNDS; ADIPOSE TISSUE; BLOOD; BRAIN; LIVER; KIDNEYS; MUSCLES; DDT; DIELDRIN; HEXACHLOROBENZENE; HEPTACHLOR EPOXIDE; ATLANTIC; ARCTIC; CANADA; BIOACCUMULATION; PESTICIDE RESIDUES; BIOLOGICAL MONITORING; AGE; GREENLAND; POLYCHLORINATED BIPHENYLS; SEX; METABOLITES; DDE; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:135-152

Chlordane
12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Seal, Weddell
LEPTONYCHOTES WEDDELLI

Tissue	Cases Exposure Route	Range	Mean	General Information
8440 Adipose	a) 1 b) 1 c) 1	a) 84-86 ng/g b) 56-62 ng/g c) 12-16 ng/g Fresh wt	a) Not applicable b) Not applicable c) Not applicable	a) Female, age 3 yr + 11 mo, fat 77-80% b) Male, age 13 or 14 yr, fat 90-92% c) Male, newborn, fat 24-34%, collected 10/27/81 a) -b) collected 10/9/81. Chlordane = cis-chlordane + cis-nonachlor + trans-nonachlor + oxychlordane. Antarctica, Syowa Station GC/MS
ADIPOSE TISSUE; SEALS; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; ANTARCTICA; CHLORINE ORGANIC COMPOUNDS; NONACHLOR; OXYCHLORDANE; DDT; POLYCHLORINATED BIPHENYLS; PESTICIDES; AIR POLLUTION; ATMOSPHERE; PESTICIDE RESIDUES; ARCTIC Kawano, M.; Inoue, T.; Hidaka, H.; Tatsukawa, R. 1984 Chemosphere 13(1):95-100				

Sucker, longnose
CATOSTOMUS CATOSTOMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8441 Adipose	a) 54 b) 24 Ingestion	a) Not detected-0.242 mg/kg b) Not detected-0.088 mg/kg Wet wt	a) 0.075 mg/kg b) 0.010 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Oldman River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
8442 Adipose	a) 40 b) 16 Ingestion	a) Not detected-0.089 mg/kg b) Not detected-0.008 mg/kg Wet wt	a) 0.020 mg/kg b) 0.001 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River. Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Chlordane
12789-03-6
C10-H6-Cl6
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
5445 Adipose	22 Ingestion	0.163-0.270 mg/kg Wet wt	0.200 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Vendace
COREGONUS ALBULA

Tissue	Cases Exposure Route	Range	Mean	General Information
5444 Muscle	26	Not given	0.007+/-0.007 mg/kg Wet wt	Collected at 26 lake sampling stations, 2-9/82. Length 8-20.5 cm, wt 2.6-61 g, 0.78-1.61% fat. Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-843				

Walleye
STIZOSTEDION VITREUM VITREUM

Tissue	Cases Exposure Route	Range	Mean	General Information
5445 Adipose	a) 65 b) 21 c) 17 d) 23 Ingestion	a) Not detected-1.16 mg/kg b) Not detected-0.262 mg/kg c) 0.265-0.975 mg/kg d) 0.205-0.480 mg/kg Wet wt	a) 0.280 mg/kg b) 0.033 mg/kg c) 0.484 mg/kg d) 0.306 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River c) Bow River below Calgary d) St Mary's River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Chlordane
12789-03-6
C10-H6-Cl8
MW 400.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Whitefish, lake
COREGONUS CLUPEAFORMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
5446 Adipose	a) 21 b) 19 c) 14 Ingestion	a) Not detected-0.130 mg/kg b) Not detected-0.060 mg/kg c) Not detected-0.060 mg/kg d) 0.046-0.116 mg/kg Wet wt	a) 0.024 mg/kg b) 0.020 mg/kg c) 0.021 mg/kg d) 0.065 mg/kg Wet wt	a) Red Deer River below city of Red Deer b) Lake Newell c) McGregor Lake d) Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Whitefish, mountain
PROSOPIUM WILLIAMSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
5447 Adipose	60 Ingestion	0.103-2.12 mg/kg Wet wt	0.608 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chevelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)
67-97-0
C27-H44-O
MW 384.62, MP 84-85 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3448 Blood, serum	2 Ingestion	a) 8.4-8.6 ng/ml b) 2015.0-2745.0 ng/ml c) 476.0-501.0 ng/ml	a) 8.5 ng/ml b) 2379.0 ng/ml c) 488.5 ng/ml	a) Controls, 1 barrow, 1 gilt, 2 d prior b) 1 d after c) 4 d after Days prior to/after ingestion of suspect feed. Vitamin D content of feed was 473,000 IU/kg, vitamin A content 2,500 IU/kg. Barrow died on d 4. Study conducted after acute toxicosis developed in feedlot pigs and 8 of 35 died within 2 wk. Lethargy, emesis Hemorrhagic gastritis, diffuse interstitial pneumonia, necrosis and mineralization in fundic gastric mucosa, lungs, kidney, bone, heart, and small blood vessels (lungs, heart) HPLC
BLOOD SERUM; DELIBERATE EXPOSURE; ADULTS; NUTRITIONAL DISORDERS; AUTOPSIES; VITAMIN D; VITAMINS; ACCIDENTAL POISONING; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; DIETS; FOOD ADDITIVES; FOOD CONTAMINATION; FOODS; HEALTH HAZARDS; METABOLITES; POPULATION EXPOSURE; TERRESTRIAL; SWINE Long, G.G. 1984 Journal of the American Veterinary Medical Association 184(2):164-170				

Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)
57-88-5
C27-H46-O
MW 386.64, MP 148.5 C (anhydrous), BP 233 C at 0.5 mm Hg, 360 C at 760 mm Hg (some decomp)

Chicken, white leghorn
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3449 Blood, serum	10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 52336+/-19159 dpm/100 ml b) 31811+/-7359 dpm/100 ml c) 254.1+/-36.8 mg% d) 255.2+/-66.1 mg/%	a) Control, label, 5 cases b) 0.46 g saponin, label, 5 cases c) Control, total 5 cases d) 0.46 g saponin, total, 5 cases Saponin lowered absorption into bloodstream, but had no effect on total circulating levels. Canada

(next page)

Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)
57-88-5
C27-H46-O
MW 386.64, MP 148.5 C (anhydrous), BP 233 C at 0.5 mm Hg, 360 C at 760 mm Hg (some decomp)

Chicken, white leghorn
GALLUS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3450 Eggs	70 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 14.0 mg/g b) 13.8 mg/g c) 13.7 mg/g d) 18.3 mg/g e) 19.2 mg/g f) 18.0 mg/g g) 31.5+/-4.2% h) 16.6+/-1.4%	a) Cholesterol-free (CHF), controls, 10 cases b) CHF, 0.04%, 10 cases c) CHF, 0.40%, 10 cases d) Cholesterol added (CHA), controls, 10 cases e) CHA, 0.04%, 10 cases f) CHA, 0.40%, 10 cases g) CHA, controls, 5 cases h) CHA+0.48 g, 5 cases Measured in yolk. Dose was 0.5% with or without indicated level of saponin (a-f). (g-h) are % of labeled dose with and without saponin, excreted through yolk. Feces excretion went from 8.6+/-0.7% to 65.8+/-0.7% when saponin was added to dose. Canada
EGG YOLK; BLOOD SERUM; DELIBERATE EXPOSURE; CANADA; CHICKENS; CHOLESTEROLS; BIOACCUMULATION; RADIONUCLIDES Sim, J.S.; Kitts, W.D.; Bragg, D.B. 1984 Canadian Journal of Animal Science 64:977-984				

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3451 Hair	Ingestion	Not given	0.20 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
5452 Intestine	4 Injection Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1.6x10(E-4)% b) 2.2x10(E-4)% c) 320x10(E-4)% d) 260x10(E-4)% % of dose	a) Small intestine, 102 d after 3.07-3.259 mCi, orally, 3 cases b) Colon, cecum, same 3 c) Small intestine 70 d after 0.254 mCi IV, 1 case d) Colon, cecum, same 1 402-533 Kg Pie Noir cows. As Cr-51. Data on other organs available.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Tissue	Cases Exposure Route	Range	Mean	General Information
5453 Kidney	172	<0.01-0.03 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 162 samples below detection limit. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Valley, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
5454 Liver	a) 3 b) 1 Injection Ingestion	a) Not given b) Not given	a) 3.37+/-1.23x10(E-4)% b) 880x10(E-4)% % of dose	a) 102 d after, 3.070-3.259 mCi, oral b) 70 d after 0.254 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. 33.3% (oral) and 23.6% (IV) of body burden. Data on other organs available.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Tissue	Cases Exposure Route	Range	Mean	General Information
5455 Liver	175	<0.01-0.01 mg/kg Wet wt	0.01+or-0.07 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 166 samples below detection limit. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Valley, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Chromium
7440-47-8
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8456 Milk	a) 8 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.0035% b) 3.6%	a) 102 d after, 3.070-3.250 mCi, oral b) 70 d after 0.284 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. Data on other organs available.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Tissue	Cases Exposure Route	Range	Mean	General Information
8457 Muscle	176	<0.01-0.10 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 166 samples below detection limit. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Valiely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
8458 Spleen	a) 8 b) 1 Injection Ingestion	a) Not given b) Not given	a) 8.5x10(E-4)% b) 8100x10(E-4)% % of dose/kg	a) 102 d after, 3.070-3.250 mCi, oral b) 70 d after 0.284 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. 3.6% (oral) and 12.6% (IV) of body burden. Data on other organs available.
8459 Urine	a) 8 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.14% b) 63% % of dose	a) 102 d after, 3.070-3.250 mCi, oral b) 70 d after 0.284 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. Data on other organs available.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3460 Body	251	0.26-1.26 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS
Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3461 Body, whole	9	<0.1-2.0 ug/g Dry wt	0.55 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. No correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicol . River AAS

BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY
Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:455-460

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3462 Body	a) 13 b) 10 c) 18 d) 123 e) 36 Ingestion	a) Not detected b) 0.50-2.40 ug/g c) Not detected-0.59 ug/g d) Not detected-0.42 ug/g e) Not detected-3.34 ug/g Wet wt	a) Not detected b) 0.82 ug/g c) 0.31 ug/g d) 0.11 ug/g e) 0.07 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Chromium

7440-47-3

Cr

AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1640 C

Clam, soft-shell

MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3465 Body	a) 18 b) 10 c) 18 d) 128 e) 86 Ingestion	a) Not detected b) 0.50-2.40 ug/g c) Not detected-0.50 ug/g d) Not detected-0.42 ug/g e) Not detected-3.34 ug/g Wet wt	a) Not detected b) 0.82 ug/g c) 0.31 ug/g d) 0.11 ug/g e) 0.07 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish. 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Cod, Pacific

GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3464 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.106+/-0.026 ug/g b) 0.069+/-0.005 ug/g c) 0.114+/-0.006 ug/g d) 0.010+/-0.002 mg/100 g e) 0.111+/-0.028 ug/g f) 0.105+/-0.021 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Site variations in levels. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Chromium

7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3465 Body	a) 8 b) 20 Ingestion	a) Not detected-0.56 ug/g b) Not detected-0.31 ug/g Wet wt	a) 0.14 ug/g b) 0.05 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Honeybee
APIS MELLIFERA L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3466 Body		a) Not given b) <0.06-0.34 ppm c) Not given d) <0.005-0.0765 ppm e) Not given f) 0.58-0.8 ppm g) Not given h) <0.005-0.165 ppm	a) Not given b) 0.53 ppm c) 0.19 ppm d) 0.04 ppm e) 0.33 ppm f) 0.7 ppm g) 0.66 ppm h) 0.058 ppm	a) Controls, 1st summer b) Controls, 2nd summer c) Water repellant, 1st summer d) Water repellant, 2nd summer e) Chromated copper arsenate (CCA), 1st summer f) CCA, 2nd summer g) Acid copper chromate (ACC), 1st summer h) ACC, 2nd summer Controls, untreated wood. Wood of beehives treated in 1980 to retentions of 4 kg/cu m (CCA, ACC) or 5-min dip (Forest Products Laboratory water repellant). 5 colonies /treatment. Wisconsin, Madison AAS
INSECTS; ARSENIC; COPPER; TIN; ANIMAL POPULATIONS; WOOD PRESERVATIVES; PENTACHLOROPHENOL; CHROMIUM; DELIBERATE EXPOSURE; BODY; TERRESTRIAL; PESTICIDES Kalmus, M.A.; Detroy, E.F. 1984 Journal of Agricultural and Food Chemistry 32(5):1176-1180				

Mackerel, Atka
PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3467 Muscle	20 Ingestion	Not given	0.122+/-0.030 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 481+/-156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gangitis, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Mollusk
PERNA PERNA

Tissue	Cases Exposure Route	Range	Mean	General Information
2468 Body	10	a) Not given b) Not given	a) 0.26 +or- 0.06 ug/g b) 0.81 +or- 0.20 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Kaysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Mussel
CHOROMYTILUS MERIDIONALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2469 Body	10	a) Not given b) Not given	a) 0.24 +or- 0.09 ug/g b) 0.52 +or- 0.16 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstraad AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster
CRASSOSTREA MARGARITACEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2470 Body	10	a) Not given b) Not given	a) 0.21 +or- 0.09 ug/g b) 0.61 +or- 0.13 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Kaysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Chromium

7440-47-3

Cr

AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Oyster, American

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
8471 Body	a) 104 b) 129 c) 95 d) 261 e) 876 Ingestion	a) Not detected b) 0.50-2.70 ug/g c) Trace-1.40 ug/g d) 0.08-0.35 ug/g e) Not detected-0.40 ug/g Wet wt	a) Not detected b) 0.71 ug/g c) 0.41 ug/g d) Not detected e) Not detected Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Oyster, Pacific

CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
8472 Body	10	a) Not given b) Not given	a) 0.19 +or- 0.06 ug/g b) 0.65 +or- 0.25 ug/g Wet wt	a) Controls b) 100 ug/l for 8 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA

Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322

Pollock, walleye

THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
8473 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.067+/-0.018 ug/g b) 0.087+/-0.015 ug/g c) 0.107+/-0.005 ug/g d) 0.009+/-0.001 mg/100 g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-486 g c) Cape Ommaney, AK, 12 fish, 328+/-225 g d) Overall mean, combined sites Site variations in levels. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gaughtt, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
8476 Muscle	24 Ingestion	Not given	0.097+/-0.009 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES
Teeny, F.M.; Gonglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Roach
RUTILUS RUTILUS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
8476 Gills	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 49.6+/-14.0 ug/g b) 48.3+/-11.3 ug/g c) 4.0+/-1.3 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
8476 Kidney	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 22.8+/-6.6 ug/g b) 28.8+/-9.4 ug/g c) 3.2+/-1.3 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
8477 Liver	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 17.8+/-6.5 ug/g b) 16.4+/-5.4 ug/g c) 2.0+/-1.2 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
8476 Muscle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 1.8+/-0.4 ug/g b) 0.8+/-0.3 ug/g c) 0.7+/-0.3 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS

(next page)

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Roach
RUTILUS RUTILUS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
8479 Opercle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 89.9+/-15.1 ug/g b) 26.0+/-7.8 ug/g c) 5.6+/-4.8 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Significantly greater levels when exposed with Ni. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
FISHES; BELGIUM; NICKEL; COPPER; CHROMIUM; BIOACCUMULATION; MUSCLES; LIVER; GILLS; KIDNEYS; AQUATIC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; WATER POLLUTION Van Hoof, P.; Nauwelaers, J.P. 1984 Chemosphere 13(9):1053-1058				

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
8480 Muscle	18 Ingestion	Not given	0.100+/-0.006 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Treon, P.M.; Gangitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1964 Journal of Agricultural and Food Chemistry 32:852-856				

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8481 Bone	a) 8 b) 6 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 5.05 ug/g b) 5.81 ug/g c) 5.14 ug/g Dry wt +/-0.38 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) lambs from ewes on basal diet plus 7% undigested sewage solids Lambs from ewes on basal diet. New Mexico AAS
8482 Kidney		a) Not given b) Not given c) Not given	a) 0.20 ug/g b) 0.92 ug/g c) 0.20 ug/g Dry wt +/-0.14 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) lambs from ewes on basal diet plus 7% undigested sewage solids Lambs from ewes on basal diet. Ewes on diets for 2 yr. b) Significantly different from a) and c), $p<0.01$. New Mexico AAS

(next page)

Chromium

7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Sheep
OVIS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3485 Liver	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 0.30 ug/g b) 0.35 ug/g c) 0.45 ug/g Dry wt +/-0.06 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7 % undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS
KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 29(1):11-21				

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3484 Body	787	0.5-3.9 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Snail, saltwater
NUCELLA LAPILLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3486 Body	40 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.0+/-0.2 ppm b) 3.0+/-1.1 ppm c) 3.7+/-0.4 ppm d) 2.3+/-1.0 ppm e) 2.3+/-0.8 ppm f) 2.1+/-0.9 ppm	a) Eastport, ME, large embayment b) Pemaquid Pt., ME, exposed coastal c) New Harbor, ME, close to marina and harbors, sheltered harbor d) Manomet, MA, large embayment e) Pt. Judith, RI, industrial effluents, marinas, coastal f) Avery Pt., CT, industrial and sewage effluents, marinas, river mouth. Pseudohermaphrodites (females with penis) common at c), e), f), polluted boating areas (94-100% frequency). Relatively unpolluted areas, no abnormalities a), b), d). "Imposex" associated with heavy metals, Or not implicated. Maine; Massachusetts; Rhode Island; Connecticut AAS
SNAILS; BODY; CADMIUM; ZINC; COPPER; CHROMIUM; IRON; AQUATIC; WATER POLLUTION; POPULATION EXPOSURE; SEX; MAINE; RHODE ISLAND; MASSACHUSETTS; CONNECTICUT; ENVIRONMENTAL EXPOSURE Miller, E.R.; Pondick, J.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:612-620				

Chromium

7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3486 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.081+/-0.019 ug/g b) 0.107+/-0.031 ug/g c) 0.092+/-0.031 ug/g d) 0.009+/-0.002 mg/100 g Wet wt	a) Caught near Newport, OR, 29 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3487 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.106+/-0.020 ug/g b) 0.086+/-0.011 ug/g Wet wt	a) Near Astoria, OR, mean wt 673+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Interspecies variations among 7 species studied. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Cobalt

7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3488 Hair	Ingestion	Not given	0.031 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1495 C, BP 3100 C, VP 1 mm Hg at 1910 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3488 Liver	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 44.7x10(E-4)% b) 298x10(E-4)% % of dose/kg	a) 102 d after 0.381 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. 2.82% (oral) and 2.68% (IV) of body burden. Data available on other tissues.
3490 Milk	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.012% b) 8.5% % of dose	a) 102 d after 0.381 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. Data available on other tissues.
3491 Muscle	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.600x10(E-4)% b) 70x10(E-4)% % of dose/kg	a) 102 d after 0.381 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. 16.8% (oral) and 22.8% (IV) of body burden. Data available on other tissues.
3492 Urine	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.26% b) 60% % of dose	a) 102 d after 0.381 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. Data available on other tissues.

INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES

Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerbom, J. 1984 Health Physics 46(5):1049-1062

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3499 Body	261	0.04-0.19 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS

Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:321-328

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1495 C, BP 3100 C, VP 1 mm Hg at 1910 C

Duck, long-tailed
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3494 Feathers	a) 28 b) 15 c) 6	a) 0.10-0.40 mg/kg b) 0.12-0.22 mg/kg c) 0.092-0.16 mg/kg Dry wt	a) 0.19 +or- 0.06 mg/kg b) 0.18 +or- 0.04 mg/kg c) 0.13 +or- 0.03 mg/kg Dry wt	a) Males b) Males, oiled c) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3495 Heart	a) 50 b) 40	a) 0.007-0.11 mg/kg b) 0.10-0.44 mg/kg Wet wt	a) 0.10 +or- 0.01 mg/kg b) 0.27 +or- 0.17 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3496 Liver	a) 50 b) 40	a) 0.056-0.022 mg/kg b) 0.013-0.075 mg/kg Wet wt	a) 0.090 +or- 0.023 mg/kg b) 0.050 +or- 0.008 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3497 Muscle	90	a) 0.002-0.025 mg/kg b) 0.007-0.030 mg/kg c) 0.030-0.047 mg/kg d) 0.044-0.091 mg/kg Wet wt	a) 0.013 +or- 0.003 mg/kg b) 0.015 +or- 0.003 mg/kg c) 0.042 +or- 0.004 mg/kg d) 0.061 +or- 0.015 mg/kg Wet wt	a) Males, breast b) Females, breast c) Males, leg d) Females, leg Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3498 Stomach	a) 50 b) 40	a) 0.006-0.071 mg/kg b) 0.067-0.097 mg/kg Wet wt	a) 0.048 +or- 0.013 mg/kg b) 0.075 +or- 0.011 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

POLAND; BIRDS; IRON; ZINC; MANGANESE; COPPER; LEAD; CADMIUM; COBALT; NICKEL; BIOACCUMULATION; LIVER; MUSCLES; HEART; STOMACH; FEATHERS; AQUATIC; WATERFOWL; ENVIRONMENTAL EXPOSURE

Szefer, P.; Falandysz, J. 1988 Science of the Total Environment 29:269-276

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1495 C, BP 3100 C, VP 1 mm Hg at 1910 C

Earthworm
PHERETIMA HILGENDORFI

Tissue	Cases Exposure Route	Range	Mean	General Information
3499 Body, whole	57	0.25-1.15 ug/wet g	0.56-0.21 ug/wet g	Relatively high levels found in pre-clitellar region. Total burden increased with increased body length up to 18 cm, thereafter it remained constant. Accumulation depended upon metabolic turnover. Japan, Matsuyama City, Tsubaki shrine AAS

IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING
Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432

Koala
PHASCOLARCTOS CINEREUS (Goldfuss)

Tissue	Cases Exposure Route	Range	Mean	General Information
3500 Liver	9	Not given	2.8+/-0.57 umol/kg	Dried liver. Mean age class 3.8+/-0.5 (1 = weanling, 7 = full grown, mature). Levels stable with age. Australia, Victoria, East Gippsland and French Island AAS

LIVER; COPPER; MANGANESE; ZINC; COBALT; BLOOD PLASMA; KOALAS; AUSTRALIA; DIETS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE
McOrist, S.; Thomas, K.W. 1984 Journal of Wildlife Diseases 20(3):220-225

Mollusk
PERNA PERNA

Tissue	Cases Exposure Route	Range	Mean	General Information
3501 Body	10	a) Not given b) Not given	a) <0.02 ug/g b) 0.46 +or- 0.12 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA
Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Mussel
CHOROMYTILUS MERIDIONALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3502 Body	10	a) Not given b) Not given	a) 0.02 +or- 0.01 ug/g b) 0.38 +or- 0.10 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster
CRASSOSTREA MARGARITACEA

Tissue	Cases Exposure Route	Range	Mean	General Information
3503 Body	10	a) Not given b) Not given	a) <0.02 ug/g b) 0.07 +or- 0.03 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster, Pacific
CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3504 Body	10	a) Not given b) Not given	a) 0.01 +or- 0.01 ug/g b) 0.41 +or- 0.11 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1495 C, BP 3100 C, VP 1 mm Hg at 1910 C

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3505 Body	757	0.03-0.19 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1988 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Cobalt, isotope of mass 60
10198-40-0
Co

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3506 Bone	22 Ingestion	40-60 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 3 approx 150 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 84.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3507 Brain	22 Ingestion	15-20 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 20 approx 40 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 84.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3508 Kidney	22 Ingestion	900-450 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 17 approx 3000 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 84.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3509 Liver	22 Ingestion	200-100 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 20 approx 900 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 84.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
BIRDS; WATERFOWL; AQUATIC; DELIBERATE EXPOSURE; MUSCLES; LIVER; LUNGS; BONES; BRAIN; KIDNEYS; COBALT; CESIUM; RADIONUCLIDES Koninge, J.; Kirchmann, R.; Gerber, G.B.; Van Bruwaene, R.; Colard, J. 1986 Health Physics 46(3):681-684				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Beaver
CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3510 Intestine	4 Ingestion	Not given	1.0+/-0.2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3511 Kidney	4 Ingestion	Not given	3.0+/-0.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3512 Liver	4 Ingestion	Not given	2.9+/-0.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3513 Muscle	4 Ingestion	Not given	2.5+/-0.2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Buffalo, water
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3514 Lung	Inhalation	a) Not given b) Not given	a) 4557+/-729 mg/kg b) 9060+/-1422 mg/kg	a) Orissa area b) West Bengal area Polluted industrial and mining areas. Controls from non-industrial regions had no gross pulmonary changes, no data given. Necropsies on food animals. India Lungs were dirty pink color mottled with black. 20 trace metals present. Location of particulates suggested paralysed clearance mechanisms. Aggregates of lymphocytes and dust-laden macrophages. X-ray flourescence
CATTLE; ENVIRONMENTAL EXPOSURE; AIR POLLUTION; INDUSTRIAL POLLUTION; TERRESTRIAL; MERCURY; IRON; ZINC; LEAD; LUNGS; INDIA; AUTOPSIES; FOOD CONTAMINATION; BIOLOGICAL MONITORING; COPPER; BIOINDICATORS; DUST; INHALATION Dogra, R.K.S.; Shanker, R.; Saxena, A.K.; Khanna, S.; Srivastava, S.N.; Shukla, L.J.; Zaidi, S.H. 1984 Environmental Pollution (Series A) 36:109-120				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Bufflehead
BUCEPHALA ALBEOLA

Tissue	Cases Exposure Route	Range	Mean	General Information
3516 Kidney	17 Ingestion	5.6-48.5 ug/g Dry wt	16.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3516 Liver	71 Ingestion	9.0-546.7 ug/g Dry wt	36.7 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Caddisfly
TRICHOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3517 Body		a) 90-810 ppm b) 810-980 ppm c) 0-100 ppm d) 100-3447 ppm e) 700-1280 ppm	a) Not given b) Not given c) Not given d) Not given e) Not given	a) Controls during dry weather b) Controls during rain, only c) Station 2, which drains half of business district, during dry weather d) Station 2, which drains half of business district during rain e) Station 3, which receives total cumulative runoff from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet=rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Canvasback
AYTHYA VALISINERIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3516 Kidney	64 Ingestion	3.2-80.8 ug/g Dry wt	26.6 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Canvasback
AYTHYA VALISINERIA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3619 Liver	64 Ingestion	7.1-466.0 ug/g Dry wt	114.7 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3620 Blood	a) 8 b) 8 c) 8 Ingestion	a) 61-77 ug b) 55-75 ug c) 66-85 ug /100 ml	a) Not given b) Not given c) Not given	a) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d b) Same amount of Cd and Cu and 254-265 ug Zn/g feed c) Same amount of Cd and Cu and 641-700 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Range of means. Estimated from graph. AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129				

Tissue	Cases Exposure Route	Range	Mean	General Information
3621 Blood, plasma	10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 15.6+/-0.7 umole/L b) 13.1+/-1.2 umole/L c) 10.8+/-1.4 umole/L d) 8.3+/-1.6 umole/L e) 9.2+/-0 umole/L f) 14.2+/-0.6 umole/L g) 14.4+/-0.3 umole/L h) 16.5+/-1.6 umole/L i) 16.2+/-1.0 umole/L j) 14.6+/-1.1 umole/L S.E.	a) Untreated controls, d 0, 9 cases b) Day 69, 6 cases c) Day 152, 8 cases d) Day 186, 8 cases e) Day 288, 2 cases f) Two pellets of Tracerglass-C administered by balling-gun into reticulorumen, d 0, 10 cases g) day 69, 6 cases h) Day 152, 4 cases i) Day 186, 8 cases j) Day 288, 8 cases Significant differences: c) and h), e) and j) $p<0.05$ and d) and i) $p<0.001$. Tracerglass a phosphate-based soluble-glass pellet containing Cu, Co and Se.
BLOOD PLASMA; TERRESTRIAL; CATTLE; SHEEP; DELIBERATE EXPOSURE; DRUGS; COPPER; TRACE ELEMENTS Telfer, S.B.; Servos, G.; Carlos, G. 1984 Canadian Journal of Animal Science 64:234-236				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8622 Blood, serum	1161 Injection	a) 8.1-10.1 uM/L b) -3.7-5.1 uM/L c) 8.8-10.4 uM/L d) -2.0-2.2 uM/L e) 4.5-12.1 uM/L f) -4.9-2.8 uM/L g) 3.8-11.7 uM/L h) -1.7-0.9 uM/L Ranges of means	a) 8.8+/-0.18 uM/L b) -0.9+/-0.22 uM/L c) 8.8+/-0.17 uM/L d) 0.8+/-0.17 uM/L e) 10.3+/-0.26 uM/L f) -1.9+/-0.26 uM/L g) 10.1+/-0.26 uM/L h) 0.8+/-0.24 uM/L S.E.	a) Untreated, spring '74 b) Untreated, change from spring to autumn '74 c) Treated, Cu glycinate 80 mg Cu/calf or 130 mg/animal over 226 kg, SC in neck region once in spring d) Treated, change from spring to autumn e) Calves, same as a) f) Same as b) g) Same as c) h) Same as d) a-d) 808 untreated, 817 treated yearlings and >1 yr e-h) 366 untreated, 366 treated calves born spring '74. Statistically significant (P<0.05) change, untreated vs treated. Canada, northwestern Manitoba Hypocupremia in animals whose blood serum Cu is </=0.4 uM/L. AAS

CATTLE; COPPER; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; JUVENILES; TERRESTRIAL; BLOOD SERUM; CANADA
Bella, R.J.; Devlin, T.J.; Dryedale, R.A.; Lillie, L.E. 1984 Canadian Journal of Animal Science 64:919-926

Tissue	Cases Exposure Route	Range	Mean	General Information
8626 Brain	a) 8 b) 4 c) 4 d) 8 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 26.60 ug/g b) 24.81 ug/g c) 20.81 ug/g d) 24.56 ug/g e) 24.67 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.26 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.31 mg Pb/kg Daily dietary doses. 2 in e) survived 80 and 113 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS
8624 Heart	a) 8 b) 4 c) 4 d) 8 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 37.60 ug/g b) 28.81 ug/g c) 32.81 ug/g d) 34.26 ug/g e) 38.56 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.26 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.31 mg Pb/kg Daily dietary doses. 2 in e) survived 80 and 113 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS

LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL
Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
5825 Kidney	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.14+/-0.1 ug/g b) 2.30+/-0.1 ug/g c) 2.18+/-0.1 ug/g d) 2.66+/-0.2 ug/g Wet wt S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-50 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-365 ug Zn/g feed d) Same amount of Cd and Cu and 641-700 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) ($p<0.05$) and c), d) ($p<0.01$). AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Doro, C.R.; Reddy, C.S.; Meyer, A.W. 1964 Environmental Research 58:119-130				

Tissue	Cases Exposure Route	Range	Mean	General Information
5826 Kidney	178	<1.0-14.0 mg/kg Wet wt	4.0+or-1.5 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM ; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1968 Bulletin of Environmental Contamination and Toxicology 50:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
5827 Kidney	a) 8 b) 4 c) 4 d) 8 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 19.54 ug/g b) 16.79 ug/g c) 17.66 ug/g d) 17.04 ug/g e) 15.58 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.26 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS
LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL Doyle, J.J.; Younger, R.L. 1964 Veterinary and Human Toxicology 26(5):201-204				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3526 Liver	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 15.0+/-6.2 ug/g b) 7.7+/-2.4 ug/g c) 5.7+/-1.8 ug/g d) 36.2+/-7.3 ug/g Wet wt S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference c), d) ($p<0.05$) AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:110-120				

Tissue	Cases Exposure Route	Range	Mean	General Information
3529 Liver	180	1.4-134.5 mg/kg Wet wt	33.8+or-25.2 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM ; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Valley, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
3530 Liver	a) 5 b) 4 c) 4 d) 5 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 65.7 ug/g b) 28.7 ug/g c) 16.19 ug/g d) 64.58 ug/g e) 90.69 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 80 and 113 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS
LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1670 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3531 Muscle	a) 6 b) 6 c) 6 d) 6 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1.25+/-0.01 ug/g b) 1.30+/-0.14 ug/g c) 1.26+/-0.12 ug/g d) 1.26+/-0.11 ug/g Wet wt S.E.	a) Baseline calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-69 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-700 ug Zn/g feed 6-9 mo old calves, mean wt 164 kg. No significant difference. AAS

BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES
Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129

Tissue	Cases Exposure Route	Range	Mean	General Information
3532 Muscle	181	<1.0-9.8 mg/kg Wet wt	1.9+or-1.2 mg/kg Wet wt	From abattoirs in 10 selected 100-sq cm areas representing a cross-section of industries. 55 samples below detection limit. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM ; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Valtely, P.J. 1985 Bulletin of Environmental Contamination and Toxicology 35:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3533 Spleen	a) 3 b) 4 c) 4 d) 3 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 3.42 ug/g b) 4.60 ug/g c) 4.63 ug/g d) 5.34 ug/g e) 5.10 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS

LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL
Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3534 Body	261	0.52-1.36 ug/g Wet wt	Not applicable	Collected 6/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1982 Bulletin of Environmental Contamination and Toxicology 31:331-336				

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3556 Body, whole	9	1.0-13 ug/g Dry wt	6.7 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. No correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:459-469				

Clam, freshwater Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3556 Body	a) 28 b) 10 c) 9 d) 9 e) 9 f) 8 g) 10 h) 10 i) 10 j) 9	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 14.90+/-2.65 ug/g b) 13.96+/-4.85 ug/g c) 12.57+/-2.07 ug/g d) 16.67+/-8.98 ug/g e) 45.50+/-14.96 ug/g f) 16.17+/-9.82 ug/g g) 86.15+/-6.19 ug/g h) 81.36+/-5.06 ug/g i) 10.01+/-1.16 ug/g j) 9.19+/-1.66 ug/g Dry wt	a) 2570 ug/L for 1.4 d b) 900 ug/L for 13.1 d c) 450 ug/L for 14.6 d d) 250 ug/L for 14.0 d e) 102 ug/L for 14.0 d f) 66 ug/L for 26.2 d g) 56 ug/L for 4 d h) 25 ug/L for 14 d i) 11 ug/L for 28.2 d j) <1 ug/L for 14 d a) -c), f) dead, d), e), g)-j) alive Exposed for 4-10 wks in high-volume, flow-through bioassay. California, Tracy AAS
BODY; CLAMS; COPPER; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; CALIFORNIA; BIOACCUMULATION; BIOINDICATORS; INDUSTRIAL POLLUTION; WATER POLLUTION; POWER PLANTS; BIOCONCENTRATION; BENTHOS; AQUATIC Harrison, F.L.; Knezovich, J.P.; Rice, D.W. 1984 Archives of Environmental Contamination and Toxicology 13:65-82				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3557 Body	a) 18 b) 10 c) 18 d) 128 e) 86 Ingestion	a) 1.7-10.5 ug/g b) 0.8-12.2 ug/g c) 4.1-18.4 ug/g d) 1.5-26.8 ug/g e) 1.6-14.0 ug/g Wet wt	a) 5.9 ug/g b) 6.2 ug/g c) 9.2 ug/g d) 6.4 ug/g e) 5.8 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3556 Body	a) 18 b) 10 c) 18 d) 128 e) 86 Ingestion	a) 1.7-10.5 ug/g b) 0.8-12.2 ug/g c) 4.1-18.4 ug/g d) 1.5-26.8 ug/g e) 1.6-14.0 ug/g Wet wt	a) 5.9 ug/g b) 6.2 ug/g c) 9.2 ug/g d) 6.4 ug/g e) 5.8 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Increases in As merit future study. Chesapeake Bay and tributaries. Maryland, Chesapeake Bay area AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Tissue	Cases Exposure Route	Range	Mean	General Information
3539 Muscle	67	Not given	2.54+/-1.0 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS

CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC
Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cockle

CLINOCARDIUM NUTTALLII

Tissue	Cases Exposure Route	Range	Mean	General Information
3540 Muscle	47	Not given	1.24+or-0.445 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-20				

Cod, Pacific

GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3541 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.346+/-0.115 ug/g b) 0.195+/-0.047 ug/g c) 0.389+/-0.068 ug/g d) 0.031+/-0.010 mg/100 g e) 0.319+/-0.099 ug/g f) 0.485+/-0.126 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-640 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Slightly higher levels in tail indicated differential distribution. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Crab, blue

CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3542 Body	a) 8 b) 30 Ingestion	a) 5.4-8.6 ug/g b) 3.1-11.3 ug/g Wet wt	a) 7.1 ug/g b) 5.9 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Blomberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Crab, Dungeness

CANCER MAGISTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3543 Hepatopancreas	50	Not given	27.5+or-22.6 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS
3544 Muscle	78	Not given	10.1+or-4.41 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-28				

Crayfish

PACIFASTICUS LENIUSCULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3545 Exoskeleton	a) 10 b) 7 c) 12 d) 8	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 50 ug/g b) 40 ug/g c) 35 ug/g d) 42 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Significantly different, a) and c). Washington, Seattle, Lake Washington and Lake Union ICP
3546 Muscle	a) 10 b) 7 c) 12 d) 8	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 9.8 ug/g b) 9.7 ug/g c) 20.0 ug/g d) 9.7 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Washington, Seattle, Lake Washington and Lake Union ICP
3547 Organs	a) 10 b) 7 c) 12 d) 8	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 200 ug/g b) 100 ug/g c) 200 ug/g d) 160 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Significantly different, b) from a) and c). Washington, Seattle, Lake Washington and Lake Union ICP
MUSCLES; ORGANS; EXOSKELETON; CRAYFISH; AQUATIC; ENVIRONMENTAL EXPOSURE; WASHINGTON; LEAD; CADMIUM; MERCURY; COPPER; METALS; BIOACCUMULATION; BIOMAGNIFICATION; BIOLOGICAL MONITORING; FOOD CONTAMINATION; SEWAGE; WATER POLLUTION Stinson, M.D.; Eaton, D.L. 1983 Archives of Environmental Contamination and Toxicology 12:693-700				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Dogfish

Tissue	Cases Exposure Route	Range	Mean	General Information
3848 Liver	a) 9 b) 8 c) 8	a) Not given b) Not given c) Not given	a) 2.4 ug/g b) 3.9 ug/g c) 3.7 ug/g Dry wt	a) Controls b) 10 ppm Zn for 8 wk c) 80 ppm Zn for 24 hr Estimated from graph. Wt 150-300 g No toxic symptoms at 10 ppm, overturning at 80 ppm. AAS
SPAIN; FISHES; BIOACCUMULATION; LIVER; ZINC; COPPER; MANGANESE Sanpera, C.; Vallribera, M.; Crespo, S. 1983 Bulletin of Environmental Contamination and Toxicology 31:615-617				

Duck, black

ANAS RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
3849 Kidney	18 Ingestion	4.9-39.6 ug/g Dry wt	14.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3850 Liver	126 Ingestion	1.8-238.4 ug/g Dry wt	34.9 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Duck, long-tailed

CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3851 Feathers	a) 28 b) 16 c) 6	a) 5.4-8.9 mg/kg b) 7.6-8.9 mg/kg c) 5.6-7.0 mg/kg Wet wt	a) 6.8 +or- 0.9 mg/kg b) 8.4 +or- 0.4 mg/kg c) 6.3 +or- 0.7 mg/kg Wet wt	a) Males b) Males, oiled c) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3852 Heart	a) 50 b) 40	a) 1.7-2.1 mg/kg b) 1.2-1.9 mg/kg Wet wt	a) 1.9 +or- 0.2 mg/kg b) 1.5 +or- 0.4 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1670 C

Duck, long-tailed
CLANGULA HYEMALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3553 Liver	a) 50 b) 40	a) 1.1-66 mg/kg b) 0.81-1.8 mg/kg Wet wt	a) 1.8 +or- 0.2 mg/kg b) 1.3 +or- 0.1 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3554 Muscle	90	a) 0.055-1.2 mg/kg b) 0.22-1.2 mg/kg c) 0.44-0.79 mg/kg d) 0.87-1.0 mg/kg Wet wt	a) 0.86 +or- 0.04 mg/kg b) 0.86 +or- 0.13 mg/kg c) 0.59 +or- 0.10 mg/kg d) 0.96 +or- 0.05 mg/kg Wet wt	a) Males, breast b) Females, breast c) Males, leg d) Females, leg Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3555 Stomach	a) 50 b) 40	a) 0.17-0.97 mg/kg b) 0.18-0.51 mg/kg Wet wt	a) 0.47 +or- 0.14 mg/kg b) 0.32 +or- 0.1 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

POLAND; BIRDS; IRON; ZINC; MANGANESE; COPPER; LEAD; CADMIUM; COBALT; NICKEL; BIOACCUMULATION; LIVER; MUSCLE; HEART; STOMACH; FEATHERS; AQUATIC; WATERFOWL; ENVIRONMENTAL EXPOSURE
Szefer, P.; Falandysz, J. 1988 Science of the Total Environment 29:269-276

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3556 Bone	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 1.5+/-0.7 ug/g b) 0.9+/-0.4 ug/g c) 1.2+/-0.6 ug/g d) 1.8+/-0.9 ug/g e) <0.5 ug/g f) 1.1+/-0.6 ug/g g) 2.3+/-1.5 Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug/Pb g diet g) 50 ug Cd+50 ug Pb/g diet Juveniles 126 d old. Fed as Cl salts in diets 42+/-1 d. No signficant differences Virginia, Blacksburg AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, mallard
ANAS PLATYRHYNCHOS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3557 Kidney	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 16.2+/-2.2 ug/g b) 21.8+/-2.8 ug/g c) 56.7+/-7.7 ug/g d) 16.3+/-1.5 ug/g e) 20.9+/-2.6 ug/g f) 21.2+/-4.2 ug/g g) 37.7+/-3.7 Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug/Pb g diet g) 50 ug Cd+50 ug Pb/g diet Juveniles 126 d old. Fed as Cl salts in diets 42+/-1 d. c) significantly greater than others. b) significantly greater than others except c) Virginia, Blacksburg AAS
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Tissue	Cases Exposure Route	Range	Mean	General Information
3558 Kidney	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 14.0+/-1.0 ppm b) 46.8+/-5.5 ppm c) 68.3+/-7.3 ppm d) 108.4+/-9.7 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Dry wt S.E. Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS
DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771				

Tissue	Cases Exposure Route	Range	Mean	General Information
3560 Kidney	35 Ingestion	3.0-82.6 ug/g Dry wt	19.5 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-43				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3560 Liver	a) 6 b) 5 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 585+/-133 ug/g b) 255+/-50 ug/g c) 467+/-180 ug/g d) 602+/-124 ug/g e) 555+/-99 ug/g f) 488+/-158 ug/g g) 414+/-84 ug/g Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug/Pb g diet g) 50 ug Cd+50 ug Pb/g diet Juveniles 128 d old. Fed as Cl salts in diets 42+/-1 d. No significant differences. Virginia, Blacksburg AAS
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Tissue	Cases Exposure Route	Range	Mean	General Information
3561 Liver	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 332+/-84 ppm b) 208+/-37 ppm c) 369+/-136 ppm d) 269+/-92 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Dry wt S.E. Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Differences not significant. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS
DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771				

Tissue	Cases Exposure Route	Range	Mean	General Information
3562 Liver	157 Ingestion	2.6-957.3 ug/g Dry wt	52.0 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, ring-necked
AYTHYA COLLARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
5563 Kidney	8 Ingestion	5.4-16.5 ug/g Dry wt	9.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
5564 Liver	28 Ingestion	22.0-900.0 ug/g Dry wt	262.7 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46				

Duck, ruddy
OXYURA JAMAICENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
5565 Kidney	20 Ingestion	5.7-22.5 ug/g Dry wt	10.6 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
5566 Liver	20 Ingestion	28.5-866.0 ug/g Dry wt	85.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46				

Duck, wood
AIX SPONSA

Tissue	Cases Exposure Route	Range	Mean	General Information
5567 Liver	18 Ingestion	5.1-41.7 ug/g Dry wt	19.4 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1670 C

Eagle, booted
HIERAETUS PENNATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
5565 Eggs	a) 1 b) 3 Ingestion	a) Not given b) Not given	a) 1.260 ppm b) 1.203 ppm Wet wt	a) Collected 1961 b) 1962. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1964 Journal of Environmental Health and Science				

Eagle, imperial
AQUILA HELIACA

Tissue	Cases Exposure Route	Range	Mean	General Information
5569 Eggs	a) 6 b) 8 c) 8 d) 10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1.266 ppm b) 1.240 ppm c) 1.285 ppm d) 1.288 ppm Wet wt	a) Collected 1960 b) 1961 c) 1962 d) 1963. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1964 Journal of Environmental Health and Science				

Earthworm
LUMBRICUS RUBELLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
5570 Body		12-58 mg/kg	Not given	Collected from 51 sampling sites 1-15 km from zinc smelter. Soil content 1-130 mg/kg. Mean dry wt 86+/-28 mg. Netherlands, Eindhoven, S.E., Dutch Kempen region AAS
WORMS; LEAD; ZINC; NETHERLANDS; BODY; SMELTERS; SOILS; CADMIUM; COPPER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE Mo, W.; Bleiman, T.; van Beersum, I.; Jans, T. 1968 Bulletin of Environmental Contamination and Toxicology 30:426-427				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Earthworm
LUMBRICUS RUBELLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3571 Body, whole	37	5.94-24.1 ug/wet g	13.6+/-5.01 ug/wet g	Relatively high levels found in post-clitellar region. Total burden increased with increased body length up to 18 cm, thereafter it remained constant. Accumulation depended upon metabolic turnover. Japan, Matsuyama City, Tsubaki shrine AAS

IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING

Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432

Eel
ANGUILLA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3572 Gills	a) 9 b) 10	a) 8-14 ug/g b) 4-10 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3573 Liver	a) 9 b) 10	a) 100-165 ug/g b) 123-234 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3574 Muscle	a) 9 b) 10	a) 3-9 ug/g b) 3-6 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS

GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE

Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Fish
NANNOPERCA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3576 Muscle	a) 8 b) 10	a) Not detected-5 ug/g b) 11-14 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 2 sampling areas respectively Australia, Tasmania, South Esk River AAS

GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE
Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354

Flounder, windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3576 Liver	a) 6 b) 16 c) 6 d) 10 e) 9 f) 12 g) 6 h) 10 i) 9 j) 14 k) 4 l) 10 m) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given	a) 2.8 ppm b) 5.2 ppm c) 6.8 ppm d) 5.8 ppm e) 9.1 ppm f) 7.5 ppm g) 4.5 ppm h) 4.1 ppm i) 6.2 ppm j) 7.4 ppm k) 3.2 ppm l) 5.0 ppm m) 4.8 ppm Wet wt	a) 6/78 b) 7/79 c) 5/80 d) 7/80 e) 10/80 f) 7/79 g) 5/80 h) 7/80 i) 10/80 j) 7/79 k) 5/80 l) 7/80 m) 10/80 Milford, CT a)-e), Hempstead Harbor, NY f)-i), Roanoke Point, NY j)-m). Length 18-55 cm. Long Island Sound AAS

LIVER; COPPER; CADMIUM; CONNECTICUT; NEW YORK; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE
Greig, R.A.; Schurman, S.; Pereira, J.; Naples, P. 1983 Bulletin of Environmental Contamination and Toxicology 31:257-262

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Gadwall
ANAS STREPERA

Tissue	Cases Exposure Route	Range	Mean	General Information
8577 Kidney	9 Ingestion	1.6-20.8 ug/g Dry wt	12.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
8578 Liver	81 Ingestion	7.0-180.8 ug/g Dry wt	65.5 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46				

Hobby
FALCO SUBBUTEO

Tissue	Cases Exposure Route	Range	Mean	General Information
8579 Eggs	a) 8 b) 4 Ingestion	a) Not given b) Not given	a) 2.486 ppm b) 1.742 ppm Wet wt	a) Collected 1982 b) 1982. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Honeybee
APIS MELLIPERA L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3550 Body		a) Not given b) 8.68-9.70 ppm c) Not given d) 9.86-10.5 ppm e) Not given f) 9.76-13.4 ppm g) Not given h) 11.3-21.5 ppm i) Not given j) 9.02-9.80 ppm	a) Not given b) 9.28 ppm c) 9.17 ppm d) 10.12 ppm e) 8.82 ppm f) 11.18 ppm g) 14.1 ppm h) 16.5 ppm i) 9.45 ppm j) 9.40 ppm	a) Controls, 1st summer b) Controls, 2nd summer c) Chromated copper arsenate (CCA), 1st summer d) CCA, 2nd summer e) Acid copper chromate (ACC), 1st summer f) ACC, 2nd summer g) Copper naphthenate (CN), 1st summer h) CN, 2nd summer i) Copper 8-quinolinolate (C8-Q), 1st summer j) C8-Q, 2nd summer Controls, untreated wood. Wood of beehives treated in 1980 to retentions of 4 kg/cu m (CCA, ACC), 1.0 kg/cu m (C8-Q), or 3% (CN). 5 colonies/treatment. Wisconsin, Madison AAS
INSECTS; ARSENIC; COPPER; TIN; ANIMAL POPULATIONS; WOOD PRESERVATIVES; PENTACHLOROPHENOL; CHROMIUM; DELIBERATE EXPOSURE; BODY; TERRESTRIAL; PESTICIDES Kalmus, M.A.; Detrey, B.P. 1984 Journal of Agricultural and Food Chemistry 32(5):1176-1180				

Horse

Tissue	Cases Exposure Route	Range	Mean	General Information
3551 Blood, plasma	a) 16 b) 21 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 22.35+/-6.61 umol/l b) 10.36+/-6.61 umol/l c) 10.2 umol	a) Normal, controls b) Pastured adjacent to c) c) Pastured near Pb-Zn smelter Excessive Zn intake caused hypocuprosis in c). Treated with 60 mg Cu-glycinate SC. Australia Severe lameness, stiffened gait.
3552 Blood, serum	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 6.3 umol/l b) 0 umol/l c) 3-8 umol/l	a) Yearling Palomino filly b) 3 mo old foal c) 10 mo old standard bred foal Pastured near a steelworks, a galvanised iron manufacturing plant, a coal tar plant, and a chemical manufacturing plant. Pasture analyzed as high in Zn and Pb, moderately elevated Pb, normal Cu. Excessive Zn intake caused hypocuprosis. Australia Severe lameness, stiffened gait. Multiple bony enlargements of legs and joints, degenerative arthroses of shoulder and hip joints, histological evidence consistent with osteoporosis.

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Horse

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3583 Kidney	a) 40 b) 1 Ingestion	a) Not applicable b) Not applicable	a) 0.43+/-0.13 mmol/kg b) 0.86 mmol/kg	a) Normal, controls b) Pastured in an industrial area Pasture contained elevated Zn and Fe, moderately elevated Pb, normal Cu. Excessive Zn intake caused hypocuprosis. Australia Severe lameness, stiffened gait. Multiple bony enlargements of legs and joints, degenerative arthroses of shoulder and hip joints, histological evidence consistent with osteoporosis.
3584 Liver	a) 40 b) 1 Ingestion	a) Not applicable b) Not applicable	a) 1.26+/-2.71 mmol/kg b) 0.14 mmol/kg	a) Normal, controls b) Pastured in an industrial area Pasture contained elevated Zn and Fe, moderately elevated Pb, normal Cu. Excessive Zn intake caused hypocuprosis. Australia Severe lameness, stiffened gait. Multiple bony enlargements of legs and joints, degenerative arthroses of shoulder and hip joints, histological evidence consistent with osteoporosis.

LIVER; KIDNEYS; BLOOD SERUM; BLOOD PLASMA; ENVIRONMENTAL EXPOSURE; HORSES; TERRESTRIAL; METAL POISONING; AUSTRALIA; BONE DISEASES; AUTOPSIES; JUVENILES; COPPER; ZINC; LEAD; IRON; FOOD CONTAMINATION; BIOACCUMULATION; HEALTH HAZARDS; LAND POLLUTION

Ramsay, G.J.; Macadam, J.P.; Laing, E.A. 1964 Australian Veterinary Journal 41(7):205-207

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3585 Eggs	a) 2 b) 5 c) 4 Ingestion	a) Not given b) Not given c) Not given	a) 1.042 ppm b) 1.110 ppm c) 1.400 ppm Wet wt	a) Collected 1961 b) 1962 c) 1963. Spain AAS

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL

Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Kite, red

MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
5586 Eggs	a) 4 b) 4 c) 2 Ingestion	a) Not given b) Not given c) Not given	a) 2.022 ppm b) 1.271 ppm c) 1.565 ppm Wet wt	a) Collected 1961 b) 1962 c) 1968. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Koala

PHASCOLARCTOS CINEREUS (Goldfuss)

Tissue	Cases Exposure Route	Range	Mean	General Information
5587 Blood, plasma	6	4.9-16.6 mmol/L	9.2+/-2.3 mmol/L	Level considered suboptimal Australia, Victoria, East Gippsland and French Island AAS
5588 Liver	28	Not given	0.25+/-0.08 mmol/kg	Dried liver. Mean age class 3.9+/-0.3 (1 = weanling, 7 = full grown, mature). Levels inversely related to age. Australia, Victoria, East Gippsland and French Island AAS
LIVER; COPPER; MANGANESE; ZINC; COBALT; BLOOD PLASMA; KOALAS; AUSTRALIA; DIETS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE McOrist, S.; Thomas, K.W. 1984 Journal of Wildlife Diseases 20(3):220-225				

Lizard, water

TRITURUS PYRRHOGASTER

Tissue	Cases Exposure Route	Range	Mean	General Information
5589 Kidney	a) 5 b) 5 Injection	a) Not given b) Not given	a) 2.72+/-0.49 ug/g b) 2.86+/-0.70 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Kidney wt 36+/-8-43+/-6 mg ES

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Lizard, water
TRITURUS PYRRHOGASTER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3500 Liver	a) 5 b) 5 Injection	a) Not given b) Not given	a) 11.0+/-3.1 ug/g b) 4.22+/-2.08 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 5x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Liver wt 340+/-108-411+/-80 mg. Significant decrease of hepatic Cu is related to Cu content of metallothionein. ES
AMPHIBIANS; LIVER; KIDNEYS; DELIBERATE EXPOSURE; CADMIUM; COPPER; ZINC; AQUATIC; TERRESTRIAL; IRON; MAGNESIUM; CALCIUM; PHOSPHORUS Suzuki, K.T.; Abitomi, H.; Kawamura, R. 1984 Toxicology Letters 21:179-184				

Mackerel, Atka
PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3501 Muscle	20 Ingestion	Not given	0.648+/-0.178 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:853-855				

Mayfly
EPHEMEROPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3502 Body		a) 210-1400 ppm b) 0-310 ppm c) 520-1100 ppm d) 480-2560 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during wet weather c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-136				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Minnow, fathead
PIMEPHALES PROMELAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3588 Body, whole		a) Not given b) Not given	a) 0.21+/-0.01 ug/g b) 0.55+/-0.09 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 1.50 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 4.38 ug/L in water. AAS
3594 Gills		a) Not given b) Not given	a) 0.47+/-0.10 ug/g b) 1.66+/-0.17 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 1.50 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 4.38 ug/L in water. AAS
3595 Organs		a) Not given b) Not given	a) 0.75+/-0.04 ug/g b) 1.86+/-0.03 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 1.50 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 4.38 ug/L in water. AAS

BODY; ORGANS; GILLS; CADMIUM; COPPER; ZINC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; METALS; BIOCONCENTRATION; BIOLOGICAL MONITORING; COAL; FOSSIL-FUELED POWER PLANTS; FLY ASH; FISHES; WATER POLLUTION; INDUSTRIAL POLLUTION
Benson, W.H.; Birge, W.J. 1984 Environmental Toxicology and Chemistry 4:209-217

Mollusc sp.
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3586 Body	60	a) Not given b) Not given c) Not given d) Not given	a) 2.6+/-1.2 ug/L b) 2.4+/-0.5 ug/L c) 2.3 +/-0.5 ug/L d) 2.8+/-0.7 ug/L Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa

MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION
Watling, H.R.; Watling, R.J. 1988 Bulletin of Environmental Contamination and Toxicology 41:339-343

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Mollusk

PERNA PERNA

Tissue	Cases Exposure Route	Range	Mean	General Information
3507 Body	10	a) Not given b) Not given	a) 0.74 +or- 0.14 ug/g b) 1.79 +or- 0.90 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Mussel

CHOROMYTILUS MERIDIONALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3506 Body	10	a) Not given b) Not given	a) 1.16 +or- 0.12 ug/g b) 1.44 +or- 0.11 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oldsquaw

CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3599 Kidney	7 Ingestion	7.4-24.8 ug/g Dry wt	13.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Chesapeake Bay AAS
3600 Liver	36 Ingestion	3.5-42.0 ug/g Dry wt	20.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8601 Intestine	4 Ingestion	Not given	1.4+/-0.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
8602 Kidney	4 Ingestion	Not given	2.5+/-0.7 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
8603 Liver	4 Ingestion	Not given	5.9+/-0.8 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
8604 Muscle	4 Ingestion	Not given	4.2+/-0.6 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Otter, river
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
8605 Bone	198	<0.16-5.69 mg/g Dry wt	0.18+or-0.04 mg/g Dry wt	Collected during 1979-80 trapping season Virginia, Tidewater region AAS
8606 Kidney	a) 221 b) 169	a) <0.16-80.15 mg/g b) <0.16-16.13 mg/g Dry wt	a) 6.16 +or- 0.59 mg/g b) 3.22 +or- 0.23 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
8607 Liver	a) 226 b) 131	a) <0.16-211.00 mg/g b) 0.16-52.16 mg/g Dry wt	a) 13.92 +or- 1.48 mg/g b) 9.96 +or- 0.78 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
OTTERS; CADMIUM; COPPER; LEAD; ZINC; BIOACCUMULATION; WATER POLLUTION; BONES; KIDNEYS; LIVER; VIRGINIA Anderson-Bledsoe, K.L.; Scanlon, P.F. 1983 Bulletin of Environmental Contamination and Toxicology 30:442-447				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Oyster

CRASSOSTREA MARGARITACEA

Tissue	Cases Exposure Route	Range	Mean	General Information
3606 Body	10	a) Not given b) Not given	a) 1.42 +or- 0.38 ug/g b) 7.36 +or- 2.64 ug/g Wet wt	a) Controls b) 100 ug/l for 8 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA

Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-323

Oyster, American

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3609 Body	a) 104 b) 129 c) 95 d) 281 e) 376 Ingestion	a) 9.3-143.5 ug/g b) 4.6-56.2 ug/g c) 5.0-51.4 ug/g d) 4.0-56.3 ug/g e) 3.0-69.9 ug/g Wet wt	a) 50.2 ug/g b) 28.8 ug/g c) 28.6 ug/g d) 24.5 ug/g e) 26.5 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Biesenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Oyster, Pacific

CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3610 Body	10	a) Not given b) Not given	a) 11.2 +or- 3.3 ug/g b) 23.3 +or- 3.7 ug/g Wet wt	a) Controls b) 100 ug/l for 8 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA

Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-323

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Perch
PERCA FLUVIATILIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3611 Gills	a) 1 b) 5	a) Not applicable b) 5-8 ug/g Dry wt	a) Not detected b) Not given	a) Upstream of metal inflow b) Downstream Range of means from 3 sampling areas downstream Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Tissue	Cases Exposure Route	Range	Mean	General Information
3612 Liver	a) 10 b) 10 c) 10 Ingestion	a) Not given b) Not given c) Not given	a) 6.1+/-0.8 ug/g b) 7.0+/-1.2 ug/g c) 7.4+/-0.4 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS
LIVER; MUSCLES; FISHES; AQUATIC; DELIBERATE EXPOSURE; SWEDEN; METAL POISONING; ZINC; LEAD; COPPER; CADMIUM; MERCURY; ARSENIC; BIOACCUMULATION; INDUSTRIAL POLLUTION; WATER POLLUTION; ADULTS Larsson, A.; Haux, C.; Sjobeck, M.-L.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:116-128				

Tissue	Cases Exposure Route	Range	Mean	General Information
3613 Liver	a) 1 b) 4	a) Not applicable b) 45-129 ug/g Dry wt	a) 34 ug/g b) Not given Dry wt	a) Upstream of metal inflow b) Downstream Range of means from 3 sampling areas downstream Australia, Tasmania, South Esk River AAS
3614 Muscle	a) 8 b) 10	a) 1-82 ug/g b) 1-11 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Pintail
ANAS ACUTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3615 Kidney	5 Ingestion	5.7-22.5 ug/g Dry wt	10.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AA3
3616 Liver	24 Ingestion	14.0-509.1 ug/g Dry wt	94.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AA3
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46				

Pollock, walleye
THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3617 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.308+/-0.095 ug/g b) 0.215+/-0.040 ug/g c) 0.307+/-0.031 ug/g d) 0.028+/-0.007 mg/100 g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-353 g b) Shelik of Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 328+/-228 g. Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-856				

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3618 Muscle	24 Ingestion	Not given	0.325+/-0.085 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-856				

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3619 Kidney	4 Ingestion	Not given	3.9+/-1.0 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3620 Liver	4 Ingestion	Not given	4.8+/-1.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3621 Muscle	4 Ingestion	Not given	2.5+/-0.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1986 Science of the Total Environment 54:177-184				

Roach
RUTILUS RUTILUS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3622 Gills	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 57.8+/-20.1 ug/g b) 29.3+/-6.6 ug/g c) 5.8+/-3.2 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 Cu mg/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Increased Cu uptake when exposed with Ni. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3623 Kidney	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 16.0+/-5.9 ug/g b) 30.0+/-8.3 ug/g c) 6.0+/-3.1 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3624 Liver	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 13.6+/-3.4 ug/g b) 31.7+/-5.5 ug/g c) 6.9+/-4.0 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS

(next page)

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2566 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Roach

RUTILUS RUTILUS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3626 Muscle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 2.6+/-0.8 ug/g b) 2.2+/-0.4 ug/g c) 0.7+/-0.1 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.3 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3626 Opercle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 60.9+/-30.1 ug/g b) 72.7+/-15.3 ug/g c) 12.4+/-6.7 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.3 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS

FISHES; BELGIUM; NICKEL; COPPER; CHROMIUM; BIOACCUMULATION; MUSCLES; LIVER; GILLS; KIDNEYS; AQUATIC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; WATER POLLUTION

Van Hoof, F.; Hauwelaere, J.P. 1984 Chemosphere 13(9):1055-1066

Salmon

SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3627 Liver	a) 2 b) 6	a) Not given b) Not given	a) 198 ug/g b) 486 ug/g Dry wt	a) Upstream of metal inflow b) Downstream Data from one sampling area each Australia, Tasmania, South Esk River AAS
3626 Muscle	a) 12 b) 20	a) Not detected-2 ug/g b) 4-5 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS

GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE

Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:848-854

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2566 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Scallop, bay

ARGOPECTEN IRRADIANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3629 Intestine	a) 5 b) 5 c) 5	a) Not given b) Not given c) Not given	a) 26 +or- 3 ug/g b) 87 +or- 27 ug/g c) 308 +or- 81 ug/g Dry wt	a) Controls b) 8 wk in 5 ug/kg seawater c) 8 wk in 10 ug/kg seawater Visceral mass, adults, mean shell length 5.40 cm Rhode Island, Salt Pond AAS
3630 Muscle	a) 5 b) 5 c) 5	a) Not given b) Not given c) Not given	a) 1.70 +or- 0.33 ug/g b) 4.25 +or- 1.64 ug/g c) 7.05 +or- 2.00 ug/g Dry wt	a) Controls b) 8 wk in 5 ug/kg seawater c) 8 wk in 10 ug/kg seawater Adductor muscle, adults, mean shell length 5.40 cm Rhode Island, Salt Pond AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; COPPER; INTESTINES; MUSCLES; RHODE ISLAND; ADULTS

Szeroglan, G.E.; Johnson, M. 1983 Archives of Environmental Contamination and Toxicology 12:127-133

Scaup, greater

AYTHYA MARILA

Tissue	Cases Exposure Route	Range	Mean	General Information
3681 Kidney	11 Ingestion	5.3-21.5 ug/g Dry wt	13.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3682 Liver	13 Ingestion	6.9-117.0 ug/g Dry wt	55.0 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS

Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46

Scaup, lesser

AYTHYA AFFINIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3683 Kidney	51 Ingestion	5.0-46.6 ug/g Dry wt	14.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

...aup, lesser
...THYA AFFINIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3684 Liver	64 Ingestion	4.8-154.2 ug/g Dry wt	39.5 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Scoter, white-winged
MELANITTA FUSCA DEGLANDI

Tissue	Cases Exposure Route	Range	Mean	General Information
3685 Kidney	7 Ingestion	7.4-24.8 ug/g Dry wt	13.8 ug/g Dry wt	80% average recovery, data not corrected for recovery. Data pooled includes oldsquaws. Chesapeake Bay AAS
3686 Liver	57 Ingestion	7.3-134.4 ug/g Dry wt	39.2 ug/g Dry wt	80% average recovery, data not corrected for recovery. Data pooled includes oldsquaws. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3687 Blood	144 Ingestion	a) 1.16-5.01 mg/kg b) 0.86-1.13 mg/kg c) 1.0-1.55 mg/kg d) 0.57-1.08 mg/kg e) 1.27-1.60 mg/kg f) 1.36-1.97 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3638 Brain	166 Ingestion	a) 3.80-5.01 mg/kg b) 3.90-6.00 mg/kg c) 3.67-8.47 mg/kg d) 3.90-5.02 mg/kg e) 5.80-6.70 mg/kg f) 5.58-11.3 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS
3639 Kidney	282 Ingestion	a) 5.5-9.03 mg/kg b) 6.72-13.2 mg/kg c) 6.65-7.37 mg/kg d) 6.51-6.73 mg/kg e) 5.51-7.49 mg/kg f) 6.70-7.48 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS
3640 Liver	216 Ingestion	a) 22.1-29.6 mg/kg b) 24.3-26.5 mg/kg c) 14.6-22.7 mg/kg d) 13.9-30.7 mg/kg e) 15.8-21.7 mg/kg f) 11.3-16.3 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS
3641 Muscle	225 Ingestion	a) 1.76-2.44 mg/kg b) 1.84-2.16 mg/kg c) 1.64-1.92 mg/kg d) 1.67-1.73 mg/kg e) 1.98-2.78 mg/kg f) 2.10-3.89 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS

SEALS; CADMIUM; LEAD; MERCURY; SELENIUM; COPPER; BIOACCUMULATION; BIOLOGICAL MONITORING; CANADA; GREENLAND; BLOOD; KIDNEYS; MUSCLES; LIVER; BRAIN; AGE; ARCTIC; ATLANTIC; SEX; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:156-166

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3642 Muscle	13 Ingestion	Not given	0.746+/-0.129 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Tenny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-856				

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3643 Blood, plasma	80	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 7.4+/-0.8 umole/L b) 6.9+/-0.7 umole/L c) 6.3+/-1.5 umole/L d) 7.1+/-0.7 umole/L e) 10.4+/-0.6 umole/L f) 14.0+/-1.5 umole/L g) 8.7+/-0.7 umole/L h) 9.0+/-0.6 umole/L i) 5.8+/-0.4 umole/L	a) Untreated controls, d 0, 20 cases b) Day 114, same 20 c) Day 345, 8 cases d) Tracerglass-S pellet by balling gun into reticulorumen, d 0, 30 cases e) Day 114, another pellet at d 84, 26 cases f) Day 345, 17 cases g) CuJec (6.2 mg Cu) injection and Pardevit (Co & Se), oral, d 0, 30 cases h) Day 114, CuJec at d 84 and Pardevit d 114, 26 cases i) Day 345, 11 cases Swaledale ewes. Day 0 pre-tupping and day 114, lambing. Significant differences: e) from b) and h), f) from c) and i). Other data given.
BLOOD PLASMA; TERRESTRIAL; CATTLE; SHEEP; DELIBERATE EXPOSURE; DRUGS; COPPER; TRACE ELEMENTS Telfer, S.B.; Serves, G.; Carlos, G. 1984 Canadian Journal of Animal Science 64:284-285				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3644 Blood, plasma	8	a) 11-24 umol/l b) 8-22 umol/l c) 8-18 umol/l d) 8-18 umol/l e) 8-15 umol/l f) 6-15 umol/l g) 4-24 umol/l h) 13-28 umol/l i) 10-13 umol/l	a) 16 umol/l b) 16 umol/l c) 14 umol/l d) 15 umol/l e) 10 umol/l f) 11 umol/l g) 13 umol/l h) 21 umol/l i) 12 umol/l	a) 0 wk b) 6 wk c) 12 wk d) 18 wk e) 24 wk f) 30 wk g) 36 wk h) 42 wk i) 48 wk Seasonal changes during 48 wk trial, animals not given Cu. Drop during winter (24-36 wks) considered due to abomasum damage brought about gastrointestinal parasites. Australia

BLOOD PLASMA; LIVER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; AUSTRALIA; NUTRITIONAL DEFICIENCIES; COPPER; BIOACCUMULATION; DRUGS; DRUG THERAPY
Judson, G.J.; Trengove, C.L.; Langman, M.W.; Vandergraaff, R. 1984 Australian Veterinary Journal 61(2):40-43

Tissue	Cases Exposure Route	Range	Mean	General Information
3645 Bone	a) 8 b) 8 c) 8	a) Not given b) Not given c) Not given	a) 1.80 ug/g b) 0.75 ug/g c) 0.66 ug/g Dry wt +/-0.26 S.E.	Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. Ewes on diets for 1 yr. a) significantly different from b) and c), $p<0.05$. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM
Hudgens, R.E.; Halliford, D.M. 1984 Nutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3646 Kidney	a) 3 b) 2 c) 3 d) 2 e) 3 f) 2 Ingestion	a) 27-35 mg/kg b) 45-61 mg/kg c) 32-43 mg/kg d) 42-108 mg/kg e) 18-26 mg/kg f) 56-58 mg/kg Dry wt	a) 31 mg/kg b) 53 mg/kg c) 45 mg/kg d) 75 mg/kg e) 23 mg/kg f) 57 mg/kg Dry wt	a) Merino wethers. 731 mg/kg Zn oxide in feed b) 1481 mg/kg c) Southdown rams. 731 mg/kg Zn oxide in feed d) 1481 mg/kg e) Poll Dorset rams. 731 mg/kg Zn oxide in feed f) 1481 mg/kg Slaughtered after 49 d. Additional data available. Australia

URINE; KIDNEYS; PANCREAS; LIVER; ZINC; COPPER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; TRACE ELEMENTS; DRUGS
Ellis, T.M.; Masters, H.G.; Mayberry, C. 1984 Australian Veterinary Journal 61(9):296-298

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3647 Kidney	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 12.06 ug/g b) 12.47 ug/g c) 13.41 ug/g Dry wt +/-0.65 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS
KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM				
Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 29(1):11-21				

Tissue	Cases Exposure Route	Range	Mean	General Information
3648 Liver	a) 6 b) 6	a) 24-98 ug/g b) 366-810 ug/g Wet wt	a) 58+/-24 ug/g b) 591+/-212 ug/g Wet wt	a) Normal controls, postmortem b) Chronic Cu poisoning Relative amounts soluble Cu & Zn-containing proteins were lower in homogenates from b). Oxidation in vivo of metal-binding proteins may cause observed decrease Sweden AAS
LIVER; SHEEP; ENVIRONMENTAL EXPOSURE; COPPER; ZINC				
Hussein, K.S.M.; Frank, A.; Jones, B.-E.V.; Edqvist, L.-E. 1984 Acta Pharmacologica et Toxicologica 55:247-251				

Tissue	Cases Exposure Route	Range	Mean	General Information
3649 Liver	a) 10 b) 15 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1261+/-396 ug/g b) 1159+/-345 ug/g c) 573+/-418 ug/g d) 748+/-334 ug/g Dry wt S.E.	a) 6/81 before treatment with Mo-S b) 8/81 during treatment c) 9/81 during treatment d) 10/81 after treatment Chronic poisoning in flock at Animal Research Centre, diet moderate in Cu, low in Mo and S. Treated with 0.1 g ammonium molybdate and 1 g sodium sulfate/d. Levels decreased throughout study period, but varied greatly at end of study. Dramatic reduction in deaths. Canada, Ottawa Chronic Cu toxicosis Jaundiced conjunctiva and abdominal fat. Decomposition of liver and black kidneys. Hemorrhage into subcutaneous and interstitial tissue of neck and chest, occasionally on intestines and diaphragm. AAS
SHEEP; ACCIDENTAL POISONING; COPPER; DIETS; CANADA; TERRESTRIAL; MOLYBDENUM; LIVER; URINE; AUTOPSIES; ANIMAL FEEDS; ENZYMES; CHELATING AGENTS; DELIBERATE EXPOSURE				
Hidiroglou, M.; Heaney, D.P.; Martin, K.E. 1984 Canadian Veterinary Journal 25:377-383				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3650 Liver	60 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.91 mmol/kg b) 3.05 mmol/kg c) 3.04 mmol/kg d) 4.50 mmol/kg e) 4.62 mmol/kg Dry wt	a) Controls, 12 cases b) Variable particles, given free, 12 cases c) Variable particles, given in capsule, 12 cases d) Uniform particles, given free, 12 cases e) Uniform particles, given in capsule, 12 cases 4 wk after 2.5 g as oxidised wire particles, loose or encapsulated. Raised liver reserves without risk of toxicity.

LIVER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; NUTRITIONAL DEFICIENCIES; COPPER; BIOACCUMULATION
Judson, G.J.; Brown, T.H.; Gray, D.; Dewey, D.W.; Babidge, P.J. 1984 Australian Veterinary Journal 61(9):294-295

Tissue	Cases Exposure Route	Range	Mean	General Information
3651 Liver	a) 8 b) 8 c) 8 Ingestion	a) 75-1150 ug/g b) 50-1200 ug/g c) 100-1250 ug/g Dry wt	a) Not applicable b) Not applicable c) Not applicable	a) Controls, 50 ug Cu/g feed, peak at 8 wk with liver Cu 470 ug/g at experiment termination (25 wk) b) Tansy ragwort + 50 ug Cu/g feed, peak from 8-14 wk, 590 ug/g at 25 wk c) Tansy ragwort + 50 ug Cu/g feed + 10-50 ug Mo, peak 8-14 wk, 440 ug/g at 25 wk Range of means, estimated from graph. Polypay wether lambs. No significant differences a)-c). Oregon, Corvallis area Anorexia. Lambs fed diets b) and c) died within 25 wk AAS

SHEEP; LIVER; BIOACCUMULATION; COPPER; DIETS; BIOPSIES; AUTOPSIES; TERRESTRIAL; DELIBERATE EXPOSURE
White, D.; Swick, R.A.; Cheeke, P.R. 1984 American Journal of Veterinary Research 45(1):158-161

Tissue	Cases Exposure Route	Range	Mean	General Information
3652 Liver	a) 7 b) 7 c) 7 d) 7 e) 7 f) 7 g) 7 Ingestion Injection	a) 1.1-1.7 mmol/kg b) 1.0-1.4 mmol/kg c) 0.8-1.3 mmol/kg d) 0.9-1.2 mmol/kg e) 0.9-1.3 mmol/kg f) 1.0-1.9 mmol/kg g) 0.8-0.5 mmol/kg Dry wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) 0-80 wk, peak (7.7 mmol/kg) 16 wk after 3 g as oxidised wire b) 0-48 wk, peak (1.5 mmol/kg) 16 wk after 16 mg SC as diethylamino cupro-oxyquinoline sulponate (Cujec) c) 0-48 wk, peak (1.3 mmol/kg) 48 wk after 16 mg SC Cujec given at 30 wk d) 0-48 wk, plateau after 150 mg as Cu-sulphate e) 0-48 wks, plateau after 150 mg as Cu-sulphate given at 30 wk f) 0-48 wk, peak (1.9 mmol/kg) 48 wk after 30 mg as Cu-oxychloride g) 0-80 wk, controls Wire particles safely elevate liver stores. Australia

BLOOD PLASMA; LIVER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; AUSTRALIA; NUTRITIONAL DEFICIENCIES; COPPER; BIOACCUMULATION; DRUGS; DRUG THERAPY
Judson, G.J.; Trengove, C.L.; Langman, M.W.; Vandergraaff, R. 1984 Australian Veterinary Journal 61(2):40-43

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8658 Liver	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 201.81 ug/g b) 252.12 ug/g c) 189.50 ug/g Dry wt +/-20.74 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. a) significantly different from b), $p>0.10$. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Halford, D.M. 1984 Nutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
8664 Urine	6 Ingestion	a) 80-160 meq b) 1000-2160 meq c) 820-2160 meq	a) Not applicable b) Not applicable c) Not applicable	a) Excretion before penicillamine treatment b) During treatment, peak d 6 c) After treatment, peak d 11 Chronic poisoning in flock at Animal Research Centre, diet moderate in Cu, low in Mo and S. Range of means estimated from graph. 50.0 mg penicillamine/kg body wt/d. Enhanced excretion by 10X within 24 hr. Canada, Ottawa Chronic Cu toxicosis Jaundiced conjunctiva and abdominal fat. Decomposition of liver and black kidneys. Hemorrhage into subcutaneous and interstitial tissue of neck and chest, occasionally on intestines and diaphragm. AAS

SHEEP; ACCIDENTAL POISONING; COPPER; DIETS; CANADA; TERRESTRIAL; MOLYBDENUM; LIVER; URINE; AUTOPSIES; ANIMAL FEEDS; ENZYMES; CHELATING AGENTS; DELIBERATE EXPOSURE

Hidiroglou, M.; Heaney, D.P.; Hartin, K.E. 1984 Canadian Veterinary Journal 25:377-382

Shell, wedge
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
8656 Body		a) Not given b) Not given c) Not given d) Not given	a) 1.1+/-0.3 ug/g b) 5.7+/-1.1 ug/g c) 7.8+/-1.3 ug/g d) 17.0+/-3.8 ug/g Wet wt	a) Control b) 100 ug/L c) 250 ug/L d) 500 ug/L. 8-wk exposures to sublethal levels. South Africa

MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION

Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:339-343

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
3656 Alimentary canal	Ingestion	a) Not given b) Not given	a) 18.5+/-4.3 ug/g b) 25.1+/-3.6 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3657 Fat body	Ingestion	a) Not given b) Not given	a) 1.98+/-0.40 ug/g b) 2.75+/-1.60 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3658 Gonads	Ingestion	a) Not given b) Not given	a) 12.6 ug/g b) 12.3 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3659 Head	Ingestion	a) Not given b) Not given	a) 9.82+/-0.49 ug/g b) 14.4+/-5.2 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3660 Integument	Ingestion	a) Not given b) Not given	a) 9.36+/-1.48 ug/g b) 11.1+/-6.5 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3661 Malpighian tubes	Ingestion	a) Not given b) Not given	a) 11.9+/-1.5 ug/g b) 9.39+/-0.15 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3662 Silk gland	Ingestion	a) Not given b) Not given	a) 1.06+/-1.35 ug/g b) 2.20+/-0.98 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3663 Trachea	Ingestion	a) Not given b) Not given	a) 0.30+/-0.12 ug/g b) 4.48+/-0.89 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253				

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3664 Body	767	0.90-4.42 ug/g Wet wt	Not applicable	Collected 3/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1982 Bulletin of Environmental Contamination and Toxicology 31:331-336				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Snail, apple
POMACEA PALUDOSA

Tissue	Cases Exposure Route	Range	Mean	General Information
3665 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.2 ug/g b) 3.8 ug/g c) 3.3 ug/g d) 49.5 ug/g e) 7.4 ug/g f) 41.9 ug/g	a) Control with food b) Control without food c) Canal-derived, Cu-contaminated detritus with food d) Canal- derived, Cu-contaminated detritus without food e) Cu-treated hydrilla with food f) Cu-treated hydrilla without food a-f) Tank study, hydrilla treated with 18:1 gal Komeen:Diquat/acre. c and e) significantly lower than d and f). Field study showed no significant differences in survival of adults and juveniles after application with 6:2 gal Cutrine-plus:Diquat/acre. Florida, Loxahatchee National Wildlife Refuge 96-hr LC50 values of Cutrine-plus and Komeen for immature snails were 22 and 24 ug/l, respectively. Copper-contaminated detritus had no effect on growth or survival in tank and field studies. Induced plasma emission
BODY; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; FLORIDA; COPPER; DIQUAT; HERBICIDE; PESTICIDE RESIDUES; VEGETATION; WATER POLLUTION; ANIMAL POPULATIONS Winger, P.V.; Imlay, M.J.; McMillan, W.E.; Martin, T.W.; Takekawa, J.; Johnson, W.W. 1984 Environmental Toxicology and Chemistry 3(3):409-424				

Snail, saltwater
NUCELLA LAPILLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3666 Body	40 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 32.6+/-6.6 ppm b) 37.6+/-9.6 ppm c) 85.0+/-19.2 ppm d) 34.4+/-9.8 ppm e) 105.2+/-30.0 ppm f) 80.6+/-6.4 ppm	a) Eastport, ME, large embayment b) Pemaquid Pt., ME, exposed coastal c) New Harbor, ME, close to marina and harbors, sheltered harbor d) Manomet, MA, large embayment e) Pt. Judith, RI, industrial effluents, marinas, coastal f) Avery Pt., CT, industrial and sewage effluents, marinas, river mouth. Pseudohermaphrodites (females with penis) common at c), e), f), polluted boating areas (96-100% frequency). Relatively unpolluted areas, no abnormalities a), b), d). Elevated levels of Cu associated with frequency of pseudohermaphrodite "imposex". Maine; Massachusetts; Rhode Island; Connecticut AAS
SNAILS; BODY; CADMIUM; ZINC; COPPER; CHROMIUM; IRON; AQUATIC; WATER POLLUTION; POPULATION EXPOSURE; SEX; MAINE; RHODE ISLAND; MASSACHUSETTS; CONNECTICUT; ENVIRONMENTAL EXPOSURE Miller, E.R.; Pondick, J.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:612-620				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3667 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.160+/-0.072 ug/g b) 0.190+/-0.041 ug/g c) 0.184+/-0.052 ug/g d) 0.017+/-0.006 mg/100 g Wet wt	a) Caught near Newport, OR, 20 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 213+/-68 g d) Overall mean, combined sites. Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Stonefly
PLECOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3668 Body		a) 500-720 ppm b) 720-1440 ppm c) 1500-1950 ppm d) 450-1750 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during rain, only c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2669 Blood, plasma	12 Ingestion	a) 186.8+/-27.6-224.0+/-7.1 ug b) 177.0+/-11.1-247.8+/-22.5 ug c) 58.0+/-9.1-180.5+/-87.7 ug d) 43.8+/-6.6-100.6+/-11.3 ug /dl S.E.	a) Not given b) Not given c) Not given d) Not given	a) 6 sows (controls) 86 d pregnancy-14 d lactation, fed semi-purified diet with 63 mg/kg Zn, 2 kg/d during pregnancy, ad libitum during lactation b) 6 sows (low Zn), 13 mg/kg Zn, same regime c) Piglets of control sows, birth-14 d d) Piglets of low Zn sows, birth-14 d Purebred Landrace sows, 29-41 mo old, multipara, wt 196-267 kg. Farrowing induced d 114. No wt difference between controls and low Zn sows. No differences in levels between controls and others. Tendency toward lower Cu with advancing pregnancy. Ranges of means. AAS

BLOOD PLASMA; MILK; TERRESTRIAL; DELIBERATE EXPOSURE; ADULTS; NEWBORN; ZINC; COPPER; IRON; AMMONIA; ANIMAL FEEDS; DIETS; LACTATION; PREGNANCY
Kalinowski, J.; Chavez, E.R. 1984 Canadian Journal of Animal Science 64:749-758

Tissue	Cases Exposure Route	Range	Mean	General Information
2670 Kidney	a) 12 b) 12 c) 12 d) 12 e) 12 f) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 32.0 ppm b) 29.0 ppm c) 26.7 ppm d) 38.5 ppm e) 40.1 ppm f) 44.4 ppm Dry wt	a) 7.5 ppm b) 15 ppm c) 30 ppm d) 60 ppm e) 120 ppm f) 240 ppm Dietary levels till slaughter at 91 kg body wt Weanling, crossbred pigs, mean pre-treatment wt 12.1 kg No effects on weight gain. AAS
2671 Liver	a) 12 b) 12 c) 12 d) 12 e) 12 f) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.03 ppm b) 2.95 ppm c) 3.22 ppm d) 3.39 ppm e) 4.57 ppm f) 5.94 ppm Dry wt	a) 7.5 ppm b) 15 ppm c) 30 ppm d) 60 ppm e) 120 ppm f) 240 ppm Dietary levels till slaughter at 91 kg body wt Weanling, crossbred pigs, mean pre-treatment wt 12.1 kg No effects on weight gain. AAS

SWINE; JUVENILES; MARYLAND; KIDNEYS; LIVER; MUSCLES; COPPER; IRON; BIOACCUMULATION; DIETS
Bradley, B.D.; Graber, G.; Condon, R.J.; Probish, L.T. 1988 Journal of Animal Science 56(3):625-630

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3672 Milk	12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 4.07+/-0.53 ug b) 4.10+/-0.91 ug c) 1.71+/-0.14ug d) 1.41+/-0.09 ug /dl S.E.	a) Colostrum from first nursing, 6 sows (controls) fed semi-purified diet with 63 mg/kg Zn b) Colostrum, 6 sows 13 mg/kg Zn (low Zn) c) Milk, 5-7 d after farrowing, controls d) Milk, 5-7 d after farrowing, low Zn No significant difference $p>0.05$. Purebred Landrace sows, 29-41 mo old, multipara. Protein content also measured. AAS
BLOOD PLASMA; MILK; TERRESTRIAL; DELIBERATE EXPOSURE; ADULTS; NEWBORN; ZINC; COPPER; IRON; AMMONIA; ANIMAL FEEDS; DIETS; LACTATION; PREGNANCY Kalinowski, J.; Chavez, E.R. 1984 Canadian Journal of Animal Science 64:749-758				

Tissue	Cases Exposure Route	Range	Mean	General Information
3673 Milk	60 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 3.88 ug/ml b) 2.78 ug/ml c) 3.04 ug/ml d) 0.40 ug/ml e) 1.27 ug/ml f) 1.17 ug/ml g) 1.09 ug/ml h) 0.21 ug/ml	a) Colostrum, no dietary supplement b) Colostrum, 50 ppm Zn c) Colostrum, 500 ppm Zn d) Colostrum, 5000 ppm Zn e) After 3 wk of lactation, no dietary supplement f) After 3 wk of lactation, 50 ppm Zn g) After 3 wk of lactation, 500 ppm Zn h) After 3 wk of lactation, 5000 ppm Zn Crossbred and pure Yorkshire gilts, mean pretreatment wt 30 kg AAS
SWINE; COLOSTRUM; MILK; CALCIUM; COPPER; IRON; MAGNESIUM; MINERALS; PHOSPHORUS; ZINC; ANIMAL FEEDS; DIETS; LACTATION Hill, G.M.; Miller, E.R.; Ku, P.K. 1983 Journal of Animal Science 57(1):123-129				

Tissue	Cases Exposure Route	Range	Mean	General Information
3674 Muscle	a) 12 b) 12 c) 12 d) 12 e) 12 f) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 1.92 ppm b) 1.77 ppm c) 1.72 ppm d) 1.75 ppm e) 1.71 ppm f) 1.75 ppm Dry wt	a) 7.5 ppm b) 15 ppm c) 30 ppm d) 60 ppm e) 120 ppm f) 240 ppm Dietary levels till slaughter at 91 kg body wt Weanling, crossbred pigs, mean pre-treatment wt 12.1 kg No effects on weight gain. AAS
SWINE; JUVENILES; MARYLAND; KIDNEYS; LIVER; MUSCLES; COPPER; IRON; BIOACCUMULATION; DIETS Bradley, B.D.; Graber, G.; Condon, R.J.; Probish, L.T. 1983 Journal of Animal Science 56(3):625-630				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Teal, green-winged
ANAS CRECCA CAROLINENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3675 Liver	16 Ingestion	0.1-106.6 ug/g Dry wt	37.4 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Tench
TINCA TINCA

Tissue	Cases Exposure Route	Range	Mean	General Information
3676 Gills	a) 4 b) 9	a) 3-4 ug/g b) 10-11 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
3677 Liver	a) 3 b) 5	a) Not given b) 136-276 ug/g Dry wt	a) 30 ug/g b) Not given Dry wt	a) Upstream of metal inflow b) Downstream Data, mean and range of means from 1 and 2 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3678 Muscle	a) 4 b) 9	a) Not detectable-2 ug/g b) 4-9 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3679 Gills	a) 2 b) 8	a) Not given b) Not given	a) 7 ug/g b) 7 ug/g Dry wt	a) Upstream of metal inflow b) Downstream Data from one sampling area each Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
8680 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.275+/-0.084 ug/g b) 0.226+/-0.046 ug/g Wet wt	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 957+/-227 g. Interspecies variations among 7 species studied. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES
Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Wigeon, American
ANAS AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
8681 Kidney	14 Ingestion	6.8-94.1 ug/g Dry wt	30.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
8682 Liver	37 Ingestion	10.8-343.8 ug/g Dry wt	97.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS
Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-46

Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)
8054-06-6
C21-H30-O5
MW 362.47, MP 217-220 C, commercial samples 212-213 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
8688 Blood				Review. Clinical applications of prostaglandins. Chemistry, physiologic effects, endocrinology, reproduction management, therapeutic uses, side effects discussed.

BLOOD; SWINE; TERRESTRIAL; REVIEW; HORMONES; DRUGS; DRUG THERAPY; BIOACCUMULATION; PREGNANCY
Dial, G.D. 1984 Journal of American Veterinary Medical Association 185(12):1523-1530

50272-101

REPORT DOCUMENTATION PAGE	1. REPORT NO. EPA-560/5-84-004	2.	3. Recipient's Accession No.
4. Title and Subtitle: National Body-Burden Database Chemicals Identified in Feral and Food Animals 1984 Volume IV, Parts 1 and 2			5. Report Date 6.
7. Author(s): M. Virginia Cone, Marialice Ferguson, C. Donald Powers, and Anna S. Hammons			8. Performing Organization Rept. No. SAIC-85/1951
9. Performing Organization Name and Address Health and Environmental Information Section Public Information and Presentations Science Applications International Corporation 300 S. Tulane Avenue Oak Ridge, TN 37830			10. Project/Task/Work Unit No. 11. Contract(C) or Grant(G) No. (C) EPA IAG No. (G) DW89930139-01-4
12. Sponsoring Organization Name and Address Design and Development Branch Exposure Evaluation Division (TS798) Office of Toxic Substances U.S. Environmental Protection Agency, Washington, DC 20460			13. Type of Report & Period Covered Annual Report 1983-1984 14.

15. Supplementary Notes

16. Abstract (Limit: 200 words)

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches.

The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools.

The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI), and is maintained by the Health and Environmental Information Section, Science Applications International Corporation under the direction of the Exposure Evaluation Division, U.S. Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the U.S. Department of Energy.

17. Document Analysis a. Descriptors

Body burden
Animal tissues/body fluids
Residues

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
Release to Public	Unclassified	1171
	20. Security Class (This Page) Unclassified	22. Price

(See ANSI-Z39.18) See instructions on Reverse OPTIONAL FORM 272 (4-77) (Formerly NTIS-35) Department of Commerce